

The European Union's Tacis TRACECA programme  
for Armenia, Azerbaijan, Bulgaria, Georgia, Kazakhstan, Kyrgyzstan, Moldova,  
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

*Interim Progress Report 3*

*August 01 2009 – January 31 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

<b>Project Title:</b>	Strengthening of Transport Training Capacities in NIS countries (TRACECA)	
<b>Project Number:</b>	EUROPEAID/126298/C/SER/MULTI	
<b>Country:</b>	Armenia, Azerbaijan, Georgia, Kazakhstan, Kyrgyz Republic, Moldova, Tajikistan, Turkmenistan, Ukraine, Uzbekistan	
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**Date of report:** February 2010  
**Reporting period:** August 01, 2009 – January 31, 2010  
**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"> <li>Task 0: Inception</li> </ul>
1. Familiarise teaching staff and students with latest transport planning (TP) techniques and tools	<ul style="list-style-type: none"> <li>Task 01: Review course contents and curricula TP</li> <li>Task 02: Raise awareness for state-of-the-art techniques TP</li> <li>Task 03: Develop course materials TP</li> <li>Task 04: Training teaching staff TP</li> <li>Task 05: Improve curricula and course contents and liaise with post-graduate departments TP</li> <li>Task 06: Assist in course development for transport simulation and forecasting software</li> </ul>
2. Familiarise teaching staff and students with investment appraisal (IA) techniques and tools	<ul style="list-style-type: none"> <li>Task 07: Review course contents and curricula IA</li> <li>Task 08: Raise awareness for state-of-the-art techniques IA</li> <li>Task 09: Develop course materials IA</li> <li>Task 10: Training teaching staff IA</li> <li>Task 11: Improve curricula and course contents and liaise with post-graduate departments IA</li> </ul>
3. Improve pedagogical skills, teaching techniques (TT) and curricula development methods	<ul style="list-style-type: none"> <li>Task 12: Review teaching methods</li> <li>Task 13: Training teaching staff TT</li> <li>Task 14: Support training by post graduate departments TT</li> <li>Task 15: Provide access to online libraries and other training materials TT</li> <li>Task 16: Training assessment evaluation TT</li> </ul>



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

*Project starting date:* 31 July 2008

*Start date of activities:* 31 July 2008

*Project duration:* 24 months

*Inputs:* 300 man-days Team Leader and Transport Planning Training Expert  
 240 man-days Transport Economics Training Expert  
 200 man-days Multimodal Transportation Training Expert  
 200 man-days Pedagogical Expert  
 1200 man-days Short-term senior experts  
 Organisation of local support points in the beneficiary countries

*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 progress since the start

### 2.1 A chronological overview of main visits and meetings

September 3, 2008	Kick-off meeting project team in the Netherlands	
September 8-12, 2008	Visit to Romania	<i>René Meeuws</i>
September 8-9, 2008	Meeting in Moscow	<i>Mikhail Prokofiev</i>
September 15-19, 2008	Visit to Kazakhstan and Kyrgyz Republic	<i>René Meeuws, Irina Starkova</i>
September 15-19, 2008	Visit to Uzbekistan	<i>Norbert Wagener</i>
September 20-28, 2008	FIATA World Congress in Vancouver, Canada	<i>Mikhail Prokofiev</i>
September 22-26, 2008	Visit to Kazakhstan	<i>René Meeuws, Cas van der Baan, Irina Starkova</i>
October 2, 2008	Visit to Brussels, EuropeAid Co-operation Office A/3	<i>René Meeuws</i>
October 6-8, 2008	Visit to Moldova	<i>Cas van der Baan, Nina Nesterova</i>
October 10, 2008	Visit to Brussels	<i>René Meeuws, Nina Nesterova</i>
October 13-17, 2008	Visit to Ukraine	<i>René Meeuws, Irina Starkova, Ekaterina Bassova</i>
October 13-17, 2008	Visit to Tajikistan and Turkey	<i>Norbert Wagener, Mikhail Prokofiev</i>
October 14-15, 2008	Visit to Brussels	<i>Nina Nesterova</i>
October 20-24, 2008	Visit to Armenia and Georgia	<i>René Meeuws</i>
October 27-30, 2008	Visit to Azerbaijan	<i>René Meeuws, Irina Starkova</i>
November 4-5, 2008	Meeting in Berlin	<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	<i>René Meeuws, Mikhail Prokofiev, Elizabeth van Groll, Irina Starkova</i>
December 1-3, 2008	Visit to Bulgaria	<i>René Meeuws, Nina Nesterova, Kristiana Chakarova</i>
December 9-10, 2009	Visit to Romania	<i>Norbert Wagener, Cas van der Baan</i>
December 15, 2008	Meeting in the Netherlands on website development and e-learning	<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	<i>René Meeuws, Norbert Wagener, Cas van der Baan, Arnaud Burgess, George Emmanoulopoulos, Olga Varveri, Panos Christopoulos, Iro Dimitriadou, Konstantinos Georgiou</i>





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January 30, 2009	Meeting in Brussels with the Barbara Bernardi, Programme Manager Transport DG EuropeAid Cooperation Office	<i>René Meeuws</i>
February 9-12, 2009	Meeting in Zoetermeer with local experts from Kazakhstan and Bulgaria to discuss the TRACECA Freight 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	<i>Mikhail Prokofiev, Ekaterina Bassova</i>
March 2-3, 2009	Visit Geneva Global Trade Facilitation Partnership	<i>René Meeuws</i>
<i>March 16-20, 2009</i>	<i>Regional Symposium in Tbilisi, Georgia on Transport planning technique and tools - traffic forecasting and simulation</i>	<i>René Meeuws, Arnaud Burgess, Roman Andrutskiy, Irina Starkova, George Emmanoulopoulos, Olga Varveri</i>
March 27, 2009	Meeting in Brussels with the Barbara Bernardi, Programme Manager Transport DG EuropeAid Cooperation Office	<i>René Meeuws</i>
March 31 – April 2, 2009	Visit to Ukraine	<i>René Meeuws, Norbert Wagener, Ekaterina Bassova</i>
April 7-10, 2009	Visit to Kazakhstan	<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>	<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	<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>	<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	<i>René Meeuws</i>
June 4-5, 2009	Meeting in Germany	<i>René Meeuws, Norbert Wagener, Mikhail Prokofiev</i>







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June 8-13, 2009	Visit to Kazakhstan	<i>René Meeuws, Norbert Wagener, Irina Starkova, Gulnara Bekmagambetova</i>
July 5-7, 2009	Visit to Armenia	<i>Mikhail Prokofiev, Tetyana Karatyeyeva</i>
July 13-17, 2009	Visit to Kazakhstan and Kyrgyz Republic	<i>René Meeuws, Norbert Wagener, Cas van der Baan, Irina Starkova</i>
July 21-24, 2009	Visit to Ukraine	<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	<i>René Meeuws</i>
August 11-14, 2009	Visit to Azerbaijan	<i>René Meeuws</i>
August 17-21, 2009	Visit to Georgia	<i>René Meeuws, Norbert Wagener</i>
August 28, 2009	Meeting in Brussels with the Barbara Bernardi, Programme Manager Transport DG EuropeAid Cooperation Office	<i>René Meeuws</i>
September 15-17, 2009	Visit to Ukraine	<i>René Meeuws</i>
September 23-25, 2009	TRACECA Co-ordination meeting in Brussels	<i>René Meeuws</i>
September 28-October 1, 2009	Visit to Turkey	<i>René Meeuws</i>
October 15-16, 2009	Meeting in Germany	<i>René Meeuws, Norbert Wagener</i>
October 22, 2009	Meeting in Brussels with the Barbara Bernardi, Programme Manager Transport DG EuropeAid Cooperation Office	<i>René Meeuws</i>
October 26-30, 2009	<i>Regional workshop on Pedagogical and educational methods and e-learning in Chisinau, Moldova</i>	<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	<i>René Meeuws, Kristiana Chakarova</i>
November 11-13, 2009	Visit to Bulgaria and Romania	<i>René Meeuws, Kristiana Chakarova</i>
November 17-20, 2009	Visit to Georgia	<i>René Meeuws</i>
November 23, 2009	Visit to the Netherlands	<i>Ekaterina Bassova</i>
November 29–December 4, 2009	TRACECA Co-ordination meeting in Baku, Azerbaijan	<i>René Meeuws, Irina Starkova, Arnaud Burgess, Nina Nesterova</i>
December 7-9, 2009	Visit to Ukraine	<i>Cas van der Baan, Ekaterina Bassova</i>
December 9-11, 2009	Meeting in Germany	<i>René Meeuws, Norbert Wagener, Mikhail Prokofiev</i>
December 14-15, 2009	TRACECA Co-ordination	<i>René Meeuws, Nina</i>





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	meeting in the Netherlands (IDEA and Training project)	<i>Nesterova, Tetyana Karatyeyeva</i>
December 14-16, 2009	Visit to Kyrgyzstan	<i>Norbert Wagener</i>
January 7-8, 2010	Meeting in Germany	<i>René Meeuws, Norbert Wagener</i>
January 11-13, 2010	Visit to Romania	<i>René Meeuws</i>
January 18-21, 2010	Visit to Ukraine	<i>René Meeuws, Ekaterina Bassova</i>
January 27, 2010	Meeting in Brussels with the Barbara Bernardi, Programme Manager Transport DG EuropeAid Cooperation Office	<i>René Meeuws</i>

## 2.2 Synthesis of project results

The project has created a regional network is being created of higher educational institutes and universities 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. In order to strengthen the political dimension of the TRACECA corridor and to apply the new developed methodologies and techniques, the project is also involving Ministries of Transport where possible, as the final goal would be that they are going to use the methodologies and tools developed on transport planning, investment appraisal and multimodal transport and put them into practice.

The support programme for the transport higher educational institutes in the TRACECA region is highly welcomed, in particular by the individual universities, but also by various Ministries, which are looking for new concepts of transport planning and project appraisal. Particular interest was shown in the capacity development components of the project of training of trainers and development of training materials in an e-learning environment. The organisation of the four regional training events in Tbilisi, Georgia; Istanbul, Turkey; Germany/The Netherlands; and Chisinau, Moldova was a success. 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 others from other universities. Basic curricula and training materials have been developed for the following training courses:

- *Transport planning technique and tools - traffic forecasting and simulation*
- *Economic and financial appraisal techniques including Cost Benefit Analysis and Environmental Impact Assessment*
- *Multimodal transport and interoperability*

The fourth regional workshop produced new concepts for developing curricula, teaching methods and setting-up e-learning environments for training.

A report with the title "Curricula Appraisal Report" under separate cover makes integral part of this Interim Report 3. This report, which was elaborated by as project team aims to give an overview of the development stage of the recipient institutions in the application of the Bologna





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Process <sup>1</sup> and in the integration of "Transport Planning" (TP), "Investment Appraisal" (IA) and "Multi Modal Transport" (MMT) modules into the education process.

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. 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 core 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 integration of the newly developed curricula in this restructuring process, however, will take more time than the initial two years planned for the project. **For reasons of sustainability, it is therefore recommended to extend the project with another two years, a possibility highlighted in the procurement notice of this project.** This will enable at least some universities to bring the necessary changes in their curricula and to fully integrate the project deliverables. Tailor-made technical assistance is also needed as the requirements and guidelines from Ministries of Education differ from one country to another. Also some universities are in a restructuring process of their training curricula developing the new Bachelor-Master structure. Taking this into account, the project has come at the right time and really addresses the needs of the higher education institutes and universities in the region.

A feasibility study for the establishment of a network of regional connections for advanced transport training in the TRACECA region is being carried out as an on-going activity. During visits to higher education institutes and universities, but also at the regional training events, the establishment of such a network has been widely discussed and promoted. This network of regional connections for advanced transport training in the TRACECA region is being developed along the website [www.tracecatraining.org](http://www.tracecatraining.org). This website will be linked with the TRACECA website. On this website all training materials developed within the framework of the project have been made available. It is divided into two sections: a public domain with the paper-based versions of the training materials containing also other relevant project information; and a restricted area for e-learning purposes. Access to this part of the website is only through username and password provided by the project management. All participants of the training programmes have received access to this restricted part of the website. **This interactive website is to become the backbone of the network of regional connections of training institutes in the TRACECA region. In the near future, it is planned to organize regular conferences for disseminating and exchanging relevant information among this network.**

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<sup>1</sup> 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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Also a TRACECA regional atlas of transport and trade flows has been completed. This atlas is a complement to the developed training materials.

## 2.3 Project administration

### *Project management structure*

The project is carried by the following team of Key Experts:

- Team Leader and Transport Planner Trainer Expert: René Meeuws
- Transport Economics Training Expert: Norbert Wagener
- Multimodal Transportation Training Expert: Cas van der Baan
- Pedagogical Expert: Mikhail Prokofiev

Furthermore, a large pool of international, regional and local experts is involved.

### *Local and regional support points*

A regional project office was established in Almaty, Kazakhstan with a training coordinator, Irina Starkova. Furthermore, a regional office has been established and a regional coordinator is operating in Kiev, Ukraine. Also in Tbilisi, Georgia a regional coordinator is carrying out coordinating tasks for the project.





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### 3 Summary of project planning for the period February-July 2010

The main milestones of the project in terms of events, which will be organized for the remainder of the project, are the following:

<b>Topic</b>	<b>Duration</b>	<b>Type of event</b>	<b>Date</b>
National dissemination seminar in Azerbaijan	2 days	National workshop	February 18-19, 2010
National dissemination seminar in Armenia	2 days	National workshop	March 2-3, 2010
National dissemination seminar in Georgia	2 days	National workshop	March 4-5, 2010
National dissemination seminar in Uzbekistan	2 days	National workshop	
National dissemination seminar in Tajikistan	2 days	National workshop	March 18-19, 2010
National dissemination seminar in Moldova	2 days	National workshop	April 12-13, 2010
National dissemination seminar in Ukraine	2 days	National workshop	April 15-16, 2010
National dissemination seminar in Kyrgyzstan	2 days	National workshop	April 19-20, 2010
National dissemination seminar in Kazakhstan	2 days	National workshop	April 22-23, 2010
National dissemination seminar in Turkmenistan	2 days	National workshop	
Final workshop	1 day	Regional workshop	July 7, 2010

The following outputs are planned:

- (1) 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.

Started in March 2009; until July 2010.

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

These national training measures in will be organized from February until May 2010. An evaluation of these seminars will be presented in the next report as they will show us the way forward for the initiatives taken by the project.





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- (3) Feasibility study for the establishment of a network of regional connections for advanced transport training in the TRACECA region.  
  
On-going; until July 2010.
- (4) Implementation of network of regional connections for advanced transport training in the TRACECA region.  
  
On-going; until July 2010.





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## 4 Project progress in the reporting period

### 4.1 A chronological overview of main visits and meetings

August 11–14, 2009	Visit Azerbaijan	René Meeuws, Irina Starkova, Jeyhun Aliyev
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A visit was paid to Azerbaijan to meet the new Secretary General of the Permanent Secretariat of the Intergovernmental Commission TRACECA, Mr. Zhantoro Satybaldyev. During a meeting with other staff of the Permanent Secretariat he was briefed about the project and the progress made so far. *Mr. Satybaldyev stressed the need to involve the Ministries of Transport in the project as much as possible.* The Contractor informed the Secretary General and staff of the Permanent Secretariat about future plans to organize master classes in transport planning, investment appraisal and multimodal transportation for staff of the Ministries of Transport carried out jointly by the national higher education centres and universities and the foreign consultants. It was also emphasized by the Contractor that it would strive as well to strengthen co-operation between Transport Universities and Ministries of Transport.

Mr. Satybaldyev invited the Contractor to give a presentation about the project and the further plans of the project at the meeting of the TRACECA National Secretaries in Brussels in September 2009. The Contractor informed Mr. Satybaldyev that it would do so with all pleasure.

Mr. Satybaldyev was further briefed about the *atlas*, which is being prepared by the Contractor on transport and trade flows in the TRACECA region. The Contractor offered to send an electronic version of the atlas to all TRACECA National Secretaries and the Permanent Secretariat in Baku for comments before printing. All materials produced by the project were handed to the TRACECA PS on USB-stick.

A meeting was held with the TRACECA National Secretary for Azerbaijan, Mr. Akif Mustafayev. Progress of the project was discussed as well as the participation of Azerbaijan. It was agreed to organize a national seminar in Azerbaijan on November 24-25, 2009 to discuss the developed curricula and training materials. Mr. Mustafayev will play a central role in the organization of this event. All materials produced by the project were handed to the TRACECA NS on USB-stick.

Also liaison was made with TRACECA IDEA (Transport Dialogue and Interoperability between the EU and its Neighbouring Countries and Central Asian Countries). Extensive discussions took place with the Transport Project Development Expert, Dr. Ashraf Hamed. They were not aware of the existence of our project. All progress materials and training materials produced by the project were handed to Dr. Ashraf Hamed.

Finally a meeting took place with Mr. Sulhaddin Gezalov from the Technical University in Baku and the local coordinator Jeyhun Aliyev to discuss the project and the organization of the national dissemination seminar on November 24, 2009.





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<i>August 17–21, 2009</i>	<i>Visit Georgia</i>	<i>René Meeuws, Norbert Wagener, Asmat Abesadze</i>
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Visit to Georgian Technical University, Dean of Transportation Mechanical Engineering Faculty, Prof. Dr. Otar Gelashvili

The Transport Faculty of the Georgian Technical University is the only one training institution in Georgia educating in transport management. Prof. Gelashvili informed that they educate 4 year Bachelor in Engineering Sciences and Bachelor in Business Management (with specialization in 21 subjects), 2 years Master and 3 years Doctor degree.

Especially Dr. and Master students must go deeper in practical cases in their works. All research projects for Master and Doctor Degree are submitted to universities in Europe for scientific confirmation. A problem is that since the integration of the Ministry of Transport as a department into the Ministry of Economic Development all relations have been stopped. Good relations exist with the Road Carrier Association, the Freight Forwarder Association and the Georgian Railways. With the latter a formal memorandum was concluded on support of practicum of students.

Scientific relations exist to the Warsaw Technical University, Vilnius Polytechnical University, Chisinau University, Odessa Politechnical University, Baku University and Moscow Road Transport Institute MADI.

Prof. Gelashvili remarked that the Transport Faculty is not involved into the project events sufficiently. He would like to participate more in training events.

Norbert Wagener introduced the results up to now and the further planning of the project. The reports were handed over and the website with the training material was shown on the computer. Prof. Gelashvili appreciated the results and will check how to use.

Concerning organization of the faculty:

Former four faculties were merged to one faculty with departments for

- road transport
- railway transport
- maritime transport (forwarding, management)
- road construction
- bridges, tunnels
- railway construction
- machinery / industry
- transport management
- transport logistics
- business administration

Concerning the further development Prof. Gelashvili stressed that there is a shift in demand from Engineering to Management / Operation. Also the subjects of road construction and road engineering gain much more importance. In this respect Prof. Gelashvili appreciates the core subjects Transport Planning, Investment Appraisal; Multimodal Transportation and Interoperability of the project very much. But it is also important to strengthen the relation with the transport industry and with the Ministry in order to give practical cases. Maybe in addition to regional seminars (or within) the cooperation with ministries could be supported if possible.

In the past the faculty was the South Caucasus Railways Institute (80 years), where 20% students from Azerbaijan, 20% from Armenia and 60% from Georgia studied, altogether 1000 per year. In 2008 400 students enrolled. After the 1<sup>st</sup> year of basic study they choose specialization (2008 choose: 52 business administration, 12 technical engineering, 10 maritime,







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12 road transport, 46 transport management, 42 freight forwarding, 10 light industry, 10 wood processing, 8 polygraphy, 9 railway construction, 16 tunnels, bridges etc.). 2070 students study at Transport Faculty in total. Main languages are Georgian (50%) and Russian (50%). They have Russian and Georgian courses. 20% of students speak English. Literature is in Georgian and Russian language mainly. An internet library has been built up, 40 computers for students are available (not enough). Usually students can not afford laptops. All literature must be on the internet library.

Three important curricula in Georgian language were handed over.

Meeting with the TRACECA National Secretary and Head of the Transport Department of the Ministry of Economic Development, Mr. Mamuka Vatsadze, and his deputy Paata Tsagareishvili.

The progress of the project was discussed and all produced deliverables handed over to the TRACECA National Secretary. It is not easy to find to right recipients in Georgia. Therefore, it was agreed to organize a two-day national seminar with certain urgency for which different higher education institutes, universities and other relevant institutions in Georgia will be invited: the Technical University in Tbilisi, the Maritime Academy in Batumi, the Aviation Academy in Tbilisi, Railways, representatives from private business schools and staff from the Ministries of Economic Development (including transport policy and transport planning), Infrastructure and Regional Development (roads) and Education, etc.

August 28, 2009	Meeting in Brussels with the Barbara Bernardi, Programme Manager Transport DG EuropeAid Cooperation Office	<i>René Meeuws</i>
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Regular coordination and planning meeting between the Team Leader and the Programme Manager Transport in Brussels.

September 15-17, 2009	Visit to Ukraine	<i>René Meeuws</i>
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Meeting with Ministry of Transport and project staff and participation in conference on Agro-Logistics organized by Logistics Platform Ukraine.

September 23-25, 2009	TRACECA Co-ordination meeting in Brussels	<i>René Meeuws</i>
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Participation in TRACECA co-ordination meeting in Brussels and giving presentation on project progress. The project presentation can be found In Annex 6.

September 28-October 1, 2009	Visit to Turkey	<i>René Meeuws</i>
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The Team Leader paid a visit to Turkey where he met with the TRACECA National Secretary and his staff. Also the selection of the Turkish candidates for the regional workshop on Pedagogical and educational methods and e-learning in Chisinau, Moldova was finalized. Finally, the Team Leader attended the 9<sup>th</sup> Transportation Forum where the priorities for investment in transport infrastructure in Turkey for the coming years were defined and presented.





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October 15-16, 2009	Meeting in Germany	<i>René Meeuws, Norbert Wagener</i>
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A preparation meeting took place in Berlin, Germany for the organization of the regional workshop on Pedagogical and educational methods and e-learning in Chisinau, Moldova.

October 22, 2009	Meeting in Brussels with the Barbara Bernardi, Programme Manager Transport DG EuropeAid Cooperation Office	<i>René Meeuws</i>
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Regular coordination and planning meeting between the Team Leader and the Programme Manager Transport in Brussels.

<i>October 26-30, 2009</i>	<i>Regional workshop on Pedagogical and educational methods and e-learning in Chisinau, Moldova</i>	<i>René Meeuws, Norbert Wagener, Mikhail Prokofiev, George Emmanoulopoulos, Irina Starkova, Cas van der Baan, Nina Nesterova, Govert van den Aardweg, Ben Janssen</i>
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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.

In Annex 7, 8 and 9 the list of participants, the programme and the results of the evaluation are given. On the CD-ROM, which accompanies this third Interim Report, all presentations and training materials have been put.

November 4-6, 2009	Visit to Bulgaria	<i>René Meeuws, Kristiana Chakarova</i>
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A visit was paid to Bulgaria to co-ordinate the production of the TRACECA Transport and Trade Atlas, which has been printed in Sofia.

November 11-13, 2009	Visit to Bulgaria and Romania	<i>René Meeuws, Kristiana Chakarova</i>
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Another visit to Bulgaria was necessary to fine tune the final editing of the maps in the TRACECA Transport and Trade Atlas. This visit was combined with a visit to Romania, where a meeting was set-up with Professor Popa from the Transport Faculty of the University Politehnica of Bucharest. All deliverables of the project were handed over. Also further cooperation was discussed.





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November 17-20, 2009	Visit to Georgia	<i>René Meeuws</i>
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A special visit was planned to Georgia to discuss with the TRACECA National Secretary and his staff the postponement of the national seminar and to discuss the results of the regional workshop on Pedagogical and educational methods and e-learning in Chisinau, Moldova. Also liaison and an extensive exchange of information was made with the project staff of the 'TRACECA Land Security Project'.

November 23, 2009	Visit to the Netherlands	<i>Ekaterina Bassova, René Meeuws</i>
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Ekaterina Bassova, one of the regional coordinators, paid a visit to the Netherlands to discuss inform the Team Leader about issues to be raised at the Co-ordination meeting from November 29 – December 4, 2009 in Baku as well as to discuss the further planning of the project.

November 29–December 4, 2009	TRACECA Co-ordination meeting in Baku, Azerbaijan	<i>René Meeuws, Irina Starkova, Arnaud Burgess, Nina Nesterova</i>
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Project staff actively participated in the TRACECA Co-ordination meeting Baku from November 29 – December 4, 2009. The main areas of discussion was co-ordination of the system of transport and trade data collection and processing. Intensive discussions were further held with staff of the 'TRACECA IDEA Project' to co-ordinate joint actions. It is important to stress here that our project is strongly in favour of an official annual publication of transport and trade statistics for the TRACECA countries by the TRACECA PS in Baku. It is recommended to retrieve the official trade data from the database managed by the World Trade Centre and the transport data from the Statistical offices in the TRACECA countries:

National Statistics Committees:

Armenia	<a href="http://www.armstat.am/">http://www.armstat.am/</a>
Azerbaijan	<a href="http://www.azstat.org/">http://www.azstat.org/</a>
Bulgaria	<a href="http://www.nsi.bg/">http://www.nsi.bg/</a>
Georgia	<a href="http://www.statistics.ge/">http://www.statistics.ge/</a>
Kazakhstan	<a href="http://www.stat.kz/">http://www.stat.kz/</a>
Kyrgyzstan	<a href="http://www.stat.kg/">http://www.stat.kg/</a>
Moldova	<a href="http://www.statistica.md/">http://www.statistica.md/</a>
Romania	<a href="http://www.insse.ro/">http://www.insse.ro/</a>
Russia	<a href="http://www.gks.ru/">http://www.gks.ru/</a>
Tajikistan	<a href="http://www.stat.tj/">http://www.stat.tj/</a>
Turkmenistan	<a href="http://www.stat.gov.tm/">http://www.stat.gov.tm/</a>
Turkey	<a href="http://www.tuik.gov.tr/">http://www.tuik.gov.tr/</a>
Ukraine	<a href="http://www.ukrstat.gov.ua/">http://www.ukrstat.gov.ua/</a>
Uzbekistan	<a href="http://www.gov.uz/">http://www.gov.uz/</a>

Input was also given for the elaboration of the freight model to be developed for the TRACECA region. Below a concise note that was produced in this respect:

#### *Towards a TRACECA freight model*

This memo provides a first step in the direction of combining information/data as shown in the projects at the TRACECA PS coordination meeting in Baku on 30-11-09. The status is that previous projects have not been successful in determining an integrated database of freight





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flows. The aim of this note is to describe a path of activities that enables to achieve a central database and a forecasting system. The following items are needed:

- Network in GIS and suitable for modeling: road, rail, maritime and inland waterway and intermodal terminals (road, rail, maritime and inland waterway connections).
- Regional system for TRACECA and its neighbors.
- Freight flow data for constructing a base year.
- Visum for modeling/assigning freight flows and developing a forecasting procedure so that future freight flows and capacity use (future freight flows in vehicles and tonnes transported) on network can be produced.
- Interface to present results on website/server

#### Ad 1. Networks

Although existing developed networks are insufficient, it is advisable to take results from previous projects. We can take the networks and extend/build network where necessary the Worldnet mapper. This allows to read in the networks in GIS format and to project them in Google earth, extensions to the networks can be implemented quite easily. Connection to TRANS TOOLS network for Europe. A network for connecting transit Asia has to be established as well. The network must be loaded in VISUM, this seems to be an easy task as was explained (VISUM can import shape files). A control of network parameters must take place (capacities, number of lanes, average speed). In addition screen lines with traffic counts have to be included.

Result: a complete set of networks for all modalities and terminals within TRACECA connected to other networks.

#### Ad 2. Regional system

We have to establish a GIS map that contains the regions within TRACECA, but also within neighboring countries. NEA has data about China (in regions) and Russia (in Oblast i.e. provinces). Also here TRANS-TOOLS offers regions for Romania and Bulgaria. Feeding points of the regions to the network have to be established. The GIS map with Regions can also easily be imported in VISUM.

#### Ad 3. Freight flow data

Based on results of the TRACECA Transport and Trade Atlas, the logistic centers project, the BCEOM project and other previous projects a comprehensive database has to be constructed. The databases have to be produced in line with the regions as produced in Ad2. The database will consist of the record structure origin-destination commodity-mode-tonnage-vehicles-number of containers-intermodal. The commodities will be 10 NSTR, modes will be road, rail, inland waterways, maritime. Vehicles will be number of vehicles. Intermodal transport will only take place at an intermodal terminal (if this is '0' then no intermodal transport takes place and it is " direct transport from origin to destination).

International transport can be estimated on the basis of existing transport trade statistics (as performed by the BCEOM study). The more difficult part will be to include transit transport (from China to Europe), this will be based on sources available at NEA. The second challenge is to include domestic freight transport. NEA has already made an estimation in the TRACECA Transport and Trade Atlas to make an estimation of domestic transport in main lines.

Result: a database with transport flows (on OD basis) for 2007 that fits the regional division as included in Ad2.

#### Ad 4. VISUM Transport modeling

Once items 1., 2. and 3 are completed this can be fed in any transport modeling system. As TRACECA has VISUM licenses this will be included in the VISUM system. With this input the base year assignments can be made, indicating the network usage in terms of vehicles on the network and volumes transported.

Within such as system usually a forecasting procedure can be included. NEA can transfer the TRANS-TOOLS freight forecasting within these type of models such as VISUM. Scenarios need to be developed, NEA has already worked out a number of scenarios that can be included.





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Result: assignments for the base year and forecasting year, a set of OD tables for the forecasting year.

**Ad 5. Interface/dissemination**

The OD databases for base year and forecasting year will be put on the website. The assignments with number of vehicles and volume transported will be put on the website as well.

December 7-9, 2009	Visit to Ukraine	<i>Cas van der Baan</i>
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From 7-9, 2009, Cas van der Baan had paid a visit to Ukraine to discuss the curriculum for multimodal transportation and to give a presentation in Kiev in the 3<sup>rd</sup> International Conference of Logistics Centres organized by the Logistics Platform Ukraine.

December 9-11, 2009	Meeting in Germany	<i>René Meeuws, Norbert Wagener, Mikhail Prokofiev</i>
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The main objective of this meeting was to plan and prepare the National Seminars for 2010. The following general structure for the national seminars was agreed:

*Day 1*

1. The condition and prospects for development of the transport system in the Republic in the context of market relations and integration into the international transport system.  
Responsibility: national partner.
2. Current status – effective standards that regulate design of specializations and curricula for training of transport specialists in higher educational establishments.  
Responsibility: national partner.
3. The use and application of Project recommendations in the design of curricula for transport specializations (which disciplines (modules) suggested by the Project are completely or partially included in master and bachelor curricula).  
Responsibility: national partner.
4. Presentation of teaching of one or several disciplines (modules) suggested by the Project in master and bachelor training.  
Responsibility: project team.
5. Discussion and evaluation of application of suggested disciplines (modules) in academic activities from the point of view of improvement of the quality of transport specialist training.  
Responsibility: national partner.
6. Development of recommendations for improvement of curricula and programs (within the limit of allocated 20 ... 30 % of free components) for transport specialist training.  
Responsibility: national partner.
7. Development of recommendations for design of teaching materials (teaching aids, manuals, etc.) taking into account national aspects of the transport system for the purpose of improving academic activities in transport specialist training.  
Responsibility: national seminar.
8. Summary and conclusions: Further needs for implementation, next activities and responsibilities.

Closing of the Seminar.





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Moderation: National partner (e.g. main beneficiary or NS).  
Invitations by national partner to freight forwarders, Ministries of Transport, Ministries of Education, TRACECA National Secretaries, other institutions.

Distribution of lecturing material on USB stick and personal free hard copy of TRACECA Atlas to all participants.

*Day 2*

Optional workshop on e-learning (Nina Nesterova) and optional bilateral workshops.

December 14-15, 2009	TRACECA Co-ordination meeting in the Netherlands (IDEA and Training project)	<i>René Meeuws, Nina Nesterova, Tetyana Karatyeyeva, IDEA staff</i>
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Another co-ordination meeting between two TRACECA projects took place between December 14-15, 2009 in the Netherlands at NEA's headquarters in Zoetermeer. Main objective of this meeting was to discuss and define indicators for measurement of logistics performance of the TRACECA transport and trade corridors. The meeting was very fruitful as it permitted to share experiences in this respect. NEA has carried out many similar studies for the World Bank and the EU in Europe, Central Asia, Caucasus, Africa and Asia.

December 14-16, 2009	Visit to Kyrgyzstan	<i>Norbert Wagener</i>
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*Meeting with Prof. Dr. Torobekov Bekjan, Vice Rector for Management of Transport at Kyrgyz State Technical University, 15. and 16.12.09*

National Seminar

*Prof. Dr. Torobekov Bekjan* was informed about the latest results of the project and all material was handed over to him, including the proceedings of the regional workshop in Chisinau (Moldova).

Objectives and principle agenda of the National Seminar in Kyrgyzstan in 2010 were discussed. Prof. Torobekov is ready to host the national seminar at the Kyrgyz State Technical University and to invite all four relevant universities (Kyrgyz State Technical University, University for Transport and Construction, Slavic University, National Agrarian University). Also regional training institutions, related to the universities, from Osh, Batken, Zhalalabad, Naryn Isyk-Kul and Tallas would be invited as well as representatives from the Ministry of Transport and the Ministry of Education. Since Prof. Torobekov is head of Commission for Transport Education at Ministry of Education, he has good possibilities to promote the seminar.

The date originally planned for 1<sup>st</sup> and 2<sup>nd</sup> of April does not fit for him. Prof Torobekov proposes April 19-20, 2010. From April 22-24, 2010, an USAID conference on "International System of Accreditation and Quality Management in Higher Education" will take place, for which Prof. Torobekov also invites the project team.

We agreed to send him the proposal for an agenda. For operational co-ordination Irina Starkova as training co-ordinator would contact him beginning of January 2010.

Prof. Torobekov stressed the important need to develop a curriculum and material on logistics. One main programme should be developed for students, another further education programme must be developed for specialists and managers from transport and industry. The Ministry of Transport has deep interest in this programme. The Ministry of Education is ready to take the initiative. International technical assistance would be most welcomed because experiences and scientific background is almost not existent.





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Elaboration of Technical Standards for Road Transport

At present there is a law on land transport. Laws on dangerous goods and on water transport do not exist yet, the latter is in preparation. Technical standards for road transport (maximum weight, dimensions, emissions etc.) do not exist in Kyrgyzstan. There is an urgent need to develop these standards. The responsibility for this is at the side of the Ministry for technical regulations. The Ministry of Transport gives its expertise. The parliament decides. TRACECA could assist the Ministry of Transport or the university.

Solution for ecological problems in transport

There is the problem that there are no guidance or regulations concerning ecological standards for private transport companies. Prof. Torobekov asks the project team if there is a chance to assist in this matter, maybe in a prolongation period of this project. We advised him to submit problems and needs to the Kyrgyz TRACECA National Secretary and in the next step via him to the Secretary General in Baku. Prof. Torobekov would elaborate the problems and the way after the January 5, 2010 after a positive signal by us. He would appreciate comments from us to his paper and would submit it later to the TRACECA NS.

*Meeting with Sirojiddinov, Bobur, Head of Department for International Relations of Automobile and Road Construction Institute at Technical University Tashkent, Uzbekistan*

All deliverables of the project were handed over and the objectives and the principal agenda of the National Seminar in Uzbekistan was discussed. He was informed about our proposed date – March 18-19, 2010. Mr. Bobur will inform his rector and discuss the possibilities. In general he fully agrees with the idea of the organization of a national seminar.

January 7-8, 2010	Meeting in Germany	<i>René Meeuws, Norbert Wagener</i>
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The main objective of this meeting was to further plan and prepare the National Seminars for 2010.

January 11-13, 2010	Visit to Romania	<i>René Meeuws</i>
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Between January 11-13, 2010 a visit was made to Romania. Main objective was to discuss the role of Romania in this TRACECA training project with the TRACECA National Secretary of Romania, Ionut Iordache. Romania does have the infrastructure and expertise for providing training in transport. The viability of the establishment of a regional TRACECA training centre in Romania was discussed. It was agreed to look with more detail into this topic. Mr. Iordache suggested to contact Gino Cucliciu, manager of a large transport training centre, in this respect.

A meeting was organized with Mr. Cucliciu and it was agreed to propose Mr. Cucliciu as a local expert for Romania to carry out a feasibility study for such a regional training centre assisted by the project team.

January 18-21, 2010	Visit to Ukraine	<i>René Meeuws, Ekaterina Bassova</i>
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A meeting was organized on January 19, 2009 with the Mr. Dmytrychenko, rector of the National Technical University (N.T.U.) in Kiev and Mr. Tokin, vice rector of the N.T.U. Discussed was the planning of the national seminar in Kiev on April 15-16, 2010. It was agreed to hold the second day of the National Seminar – the computer workshop - on April 16, 2010 at the facilities of the National Transport University. It was also suggested to organize the final





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seminar of the project and the official establishment of the regional network of higher educational institutes and universities in the field of transport in Kiev on July 7-8, 2010.

A meeting took place with Mr. Legenkyi, National Secretary TRACECA, Mrs. Guzmanenko, Deputy director of the Department for Development and Coordination of Transport Systems of the Ministry of Transport and other staff of the Ministry of Transport. The NS TRACECA and the staff of the Ministry were informed about the progress of the project and the planning of the last part including the organization of a national seminar and the final seminar of the project in Ukraine.

A visit was paid to the Delegation of the European Commission to Ukraine where a meeting was held with Mrs. Laura Garagnani, first Counsellor and Head of Operations; Hans Rhein, First secretary Head of Operation Section Energy, Transport, Environment; and Svitlana Didkivska, Sector Manager Transport. The Delegation was briefed about the project and the coordination with other transport projects in Ukraine was discussed. It was mutually agreed that capacity development of transport officials is a priority in Ukraine.

January 27, 2010	Meeting in Brussels with the Barbara Bernardi, Programme Manager Transport DG EuropeAid Cooperation Office	<i>René Meeuws</i>
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The TRACECA Transport and Trade Atlas was presented and its distribution was discussed. Also the further planning of the project was agreed upon.







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## 4.2 Status of achievement of project objectives

*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.

The project has created a regional network is being created of higher educational institutes and universities 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. In order to strengthen the political dimension of the TRACECA corridor and to apply the new developed methodologies and techniques, the project is also involving Ministries of Transport where possible, as the final goal would be that they are going to use the methodologies and tools developed on transport planning, investment appraisal and multimodal transport and put them into practice.

The support programme for the transport higher educational institutes in the TRACECA region is highly welcomed, in particular by the individual universities, but also by various Ministries, which are looking for new concepts of transport planning and project appraisal. Particular interest was shown in the capacity development components of the project of training of trainers and development of training materials in an e-learning environment. The organisation of the four regional training events in Tbilisi, Georgia; Istanbul, Turkey; Germany/The Netherlands; and Chisinau, Moldova was a success. 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 others from other universities. Basic curricula and training materials have been developed for the following training courses:

- *Transport planning technique and tools - traffic forecasting and simulation*
- *Economic and financial appraisal techniques including Cost Benefit Analysis and Environmental Impact Assessment*
- *Multimodal transport and interoperability*

The fourth regional workshop produced new concepts for developing curricula, teaching methods and setting-up e-learning environments for training.

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.

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.





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A report with the title "Curricula Appraisal Report" under separate cover makes integral part of this Interim Report 3. This report, which was elaborated by as project team aims to give an overview of the development stage of the recipient institutions in the application of the Bologna Process and in the integration of "Transport Planning" (TP), "Investment Appraisal" (IA) and "Multi Modal Transport" (MMT) modules into the education process. The appraisal is 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 is based on the limited information available but it allows conclusions on common practices in the countries and on development trends to be made. The area to be covered comprises NIS TRACECA countries Armenia, Azerbaijan, Georgia, Kazakhstan, Kyrgyzstan, Moldova, Tajikistan, Ukraine and Uzbekistan. The report comes to the following conclusions:

*Almost all the above mentioned beneficiary universities are participants of Bologna process or, at least, deal with Bologna process problems during the higher education reform process. The Bologna declaration obligates the countries (universities) to adapt national curriculums by 2010 to the structure of the European system of higher education. In a transition period curriculums of the higher school represent a combination of old and new systems. In the majority beneficiary universities the given process of reforming concerns basically "Gosstandard", in particular, concerning quantity of specialties, assuming greater freedom for students in a choice of rates and lecturers from existed before system and introducing an educational level and the credit systems corresponding the international standards.*

*Besides following direction of Bologna process, in some beneficiary universities essential changes and reforms already took place with the purpose of reduction of training in sphere of transport formation, in conformity with the international standards. The basic configurations of reforming are resulted as follows:*

*New curriculums, for example, in the field of transport economy and multimodal transportations are introduced in Ukraine, at the National Aviation University. The modules "Transport Planning", "Investment Appraisal", "Organization of Multimodal Transport" are partly covered in the lecturing material for quite a few specializations.*

*Systems of planning for new curriculums with the purpose of maintenance of greater flexibility and participation of the interested parties (at some universities) are reconsidered.*

*At Kazakh Academy of Transport and Communication the material on intermodal and multimodal transport plans to be covered and implemented by the teaching department "Transport Logistics".*

*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 beneficiary universities.*

*The further development of transport sector in the beneficiary countries demands complete continuous training and professional growth in the basic directions recommended within the limits of the project of EU (EUROPEAID/126298/C/SER/MULTI) for the CIS countries (TRACECA).*

*The basic attention has to be given on following aspects of improvement of professional skills:*

- **Multimodal transport networks, a policy and logistical maintenance, basically, by way of organizational interaction, physical/technical interaction within the limits of one type of transport, between different types of transport and at crossing borders.**
- **Development of faculties on multimodal transport.**





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- **Modern methods of planning, modeling and forecasting of transportations in the field of transport.**
- **Acquaintance of teaching structure and students with the newest methods and tools of transport planning.**
- **Techniques of an estimation of investments, including the analysis of financial and economic profitability, an estimation of ecological influence and an estimation of risks also that is not less important, an estimation of social and economic influence as, for example, influence of policy of the government on an overall performance of the given sector of economy.**
- **Acquaintance of teaching structure and students with the newest methods and tools of an estimation of investments.**
- **Pedagogical professionalism and a modern technique of teaching, since model of teaching, use of various means of training, psychology of training, etc.**
- **Perfection of pedagogical skills, methods of training, including remote training, and methods of development of corresponding curriculums.**

At the Regional Workshop in Chisinau, Moldova 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 (= state national standard). In general 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 – at least in the specialization part – within the bachelor study, while Transport Planning and Investment Appraisal should be part of Master studies preferably. In case parts of Investment Appraisal in the bachelor.

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.

Age and generation - There is the age problem, that the majority of lecturers is over 65 years old. It is clear that new subjects are more difficult to be implemented therefore. Who will teach the new subjects? Special handbooks and training in particular for younger teachers or PhD students on the subjects Transport Planning, Investment Appraisal, Multimodal Transport are necessary. This needs one year thorough training and practical case studies, site visits etc. Guest lecturers from the industry should be invited to qualify the teachers.

National seminars and next steps - The national seminars should be prepared by the leading recipients in each country. All major stakeholders should be invited, like Ministry of Education, Ministry of Transport, transport operators, accreditation agencies, other institutes, students (max. 20 people). The universities should send proposals for the national seminars. Coordination via National Secretaries and Training Coordinator Irina Starkova.





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Many universities and faculties have showed their interest in participation in the process started by the project. Gradually a core 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 integration of the newly developed curricula in this restructuring process, however, will take more time than the initial two years planned for the project. **For reasons of sustainability, it is therefore recommended to extend the project with another two years, a possibility highlighted in the procurement notice of this project.** This will enable at least some universities to bring the necessary changes in their curricula and to fully integrate the project deliverables. Tailor-made technical assistance is also needed as the requirements and guidelines from Ministries of Education differ from one country to another. Also some universities are in a restructuring process of their training curricula developing the new Bachelor-Master structure. Taking this into account, the project has come at the right time and really addresses the needs of the higher education institutes and universities in the region.

A feasibility study for the establishment of a network of regional connections for advanced transport training in the TRACECA region is being carried out as an on-going activity. During visits to higher education institutes and universities, but also at the regional training events, the establishment of such a network has been widely discussed and promoted. This network of regional connections for advanced transport training in the TRACECA region is being developed along the website [www.tracecatraining.org](http://www.tracecatraining.org). This website will be linked with the TRACECA website. On this website all training materials developed within the framework of the project have been made available. It is divided into two sections: a public domain with the paper-based versions of the training materials containing also other relevant project information; and a restricted area for e-learning purposes. Access to this part of the website is only through username and password provided by the project management. All participants of the training programmes have received access to this restricted part of the website. This interactive website is to become the backbone of the network of regional connections of training institutes in the TRACECA region. In the near future, it is planned to organize regular conferences for disseminating and exchanging relevant information among this network.

Also a TRACECA regional atlas of transport and trade flows has been completed. This atlas is a complement to the developed training materials.

#### *Project approach*

A flexible project approach is adopted as the scope of the project is rather wide including development of curricula and training materials in the field of transport planning, investment appraisal and multimodal transport, training of trainers and institutional support to relevant training centres and their possible integration into existing training programmes.

The core team of four persons is travelling around the ten countries on a regular basis and guides the experts, regional support points and local co-ordinators to achieve the project objectives. But also the experiences of Romania, Bulgaria and Turkey are been taken into account and the relevant institutions in these countries are invited to participate in the regional network. Also contacts have been established with higher education institutes and universities in Germany and the Netherlands to persuade them to join the network.

Good relations are being established with transport higher educational institutes, relevant government authorities and a network is being built-up of the relevant stakeholders in this project. This network is provided with regular information about the progress of the project, mainly through the website [www.tracecatraining.org](http://www.tracecatraining.org).





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*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) Regional training measures.

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

(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 strategy and final results*

The project strategy adopted is flexible, as said above, in order to maximize the final results of the project. The area of intervention is wide as well as the number of diversity of the recipient parties. It is important to use an open access methodology: all institutions willing to participate in this project in some way or another should have the opportunity to do so. Therefore, a regional platform has been built through a common website ([www.tracecatraining.org](http://www.tracecatraining.org)).

The project aims at sustainability of the training efforts. Integration of curricula of modern transport planning techniques, methodologies for transport infrastructure investment appraisal and multimodal transportation and interoperability in existing education programmes in the TRACECA region will be an important step in this direction. In order to achieve this, the duration of two years of this project is clearly not sufficient. To make the project efforts sustainable, an extension of the project with another two years would be necessary. Also commitment of transport planners in the TRACECA region to use these methodologies in their daily planning practice, however, would also mean an important achievement of this project. Therefore, also attention will be paid to the latter. In a possible extension phase of the project, master classes





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could be organized for planners and policy makers of the different transport ministries, carried out by the higher education institutes and universities together with experts from the project team.

It has to be mentioned that the Consultant will do his best together with the beneficiaries to minimise the level of uncertainties and risks and their influence on the project performance; the EU Project Manager will be kept informed about relevant problems met.

#### Planned training events

The planning of the main training events is as follows:

<b>Topic</b>	<b>Duration</b>	<b>Type of event</b>	<b>Date</b>
National dissemination seminar in Azerbaijan	2 days	National workshop	February 18-19, 2010
National dissemination seminar in Armenia	2 days	National workshop	March 2-3, 2010
National dissemination seminar in Georgia	2 days	National workshop	March 4-5, 2010
National dissemination seminar in Uzbekistan	2 days	National workshop	March 15-16, 2010
National dissemination seminar in Tajikistan	2 days	National workshop	March 18-19, 2010
National dissemination seminar in Kazakhstan	2 days	National workshop	March 29-30, 2010
National dissemination seminar in Moldova	2 days	National workshop	April 12-13, 2010
National dissemination seminar in Ukraine	2 days	National workshop	April 15-16, 2010
National dissemination seminar in Kyrgyzstan	2 days	National workshop	April 19-20, 2010
National dissemination seminar in Turkmenistan	2 days	National workshop	May 5-6, 2010
Final workshop	1 day	Regional workshop	July 7, 2010

#### Development of curricula and training materials

The training curricula of the three main courses (transport planning, traffic forecasting and transport modelling; investment appraisal of transport infrastructure programmes and projects; multimodal transportation) have been standardized. For each of the three programmes a lesson package has been developed subdivided into 18 modules and 54 contact hours of training (18 lectures of two hours and 9 workshops of two hours).

Course materials have been developed and made available to the participating universities and training institutes. The handbooks are available on the website [www.tracecatraining.org](http://www.tracecatraining.org) in the public domain. The training courses on investment appraisal of transport infrastructure projects and multimodal transportation and interoperability are now available in a Learning Management System for registered users only.

#### Organization of regional training events

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.





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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. 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. The subject of transport planning, transport modelling and traffic forecasting is very complex and requires high technical knowledge and skills. 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. The establishment of a regional network as envisaged by the project, therefore, is highly needed. 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.

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.

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.

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. 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.

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.

#### Establishment of a regional network of training institutes

An important output/result of the project is the establishment of a regional platform of training institutions and other stakeholders on transport planning, investment appraisal of transport infrastructure projects and multimodal transportation and interoperability. This platform functions through a common website ([www.tracecatraining.org](http://www.tracecatraining.org)) with a public domain and a restricted area for members (with user names and passwords granted by the project management).





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The website hosts *Dokeos*, a web-based e-learning system known as a LMS (Learning Management System) or CMS (Course Management System) or VLS (Virtual Learning Environment). *Dokeos* also offers a powerful, simply to use video-conferencing tool facilitating live presentations and interactive communication using webcams and microphones linked with a computer for live dialogue.

A tailor-made tutorial has been developed to use *Dokeos* and is available on the website as well.

#### Production of TRACECA regional atlas of transport flows

An additional output is the production of a *regional transport and trade atlas of the TRACECA region* in English and Russian language with the transport infrastructure network, existing and forecasted trade and traffic flows over the main corridors with a modal split, planned investments in transport infrastructure on those corridors, etc. The contents of the atlas is as follows:

<b>Page</b>	<b>5</b>	Foreword
	<b>7</b>	Introduction
	<b>11</b>	Trade and transport flows
	<b>33</b>	Passenger transport
	<b>37</b>	Transport policy in TRACECA
	<b>45</b>	Transport chains and intermodal transport
	<b>51</b>	Logistics in TRACECA perspective
	<b>63</b>	External effects of transport in TRACECA
	<b>67</b>	Further transport issues
	<b>69</b>	References
	<b>71</b>	Glossary
	<b>73</b>	Project and Contact Details

This atlas is complementary to the training materials produced by the project. The atlas constitutes one of the deliverables of the project and is part of this Interim Report 3.

## 4.3 Project Administration

### ***Project management structure***

The project is carried by the following team of Key Experts:

- Team Leader and Transport Planner Trainer Expert: René Meeuws
- Transport Economics Training Expert: Norbert Wagener
- Multimodal Transportation Training Expert: Cas van der Baan
- Pedagogical Expert: Mikhail Prokofiev

Furthermore, a large pool of international, regional and local experts is involved.

### ***Local and regional support points***

A regional project office was established in Almaty, Kazakhstan with a training coordinator, Irina Starkova. Furthermore, a regional office has been established and a regional coordinator is operating in Kiev, Ukraine. Also in Tbilisi, Georgia a regional coordinator is carrying out coordinating tasks for the project.







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The key experts and short term experts visit these regional support points regularly in order to ensure continuity and best coverage of the whole region.

In some countries without a regional office, a country representative / local coordinator has been appointed. These representatives/coordinators are responsible for all local assistance needed by the expert team.





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## 5 Project planning for next reporting period

### 5.1 Project Planning

The main milestones of the project in terms of events, which will be organized, are the following:

<i>Topic</i>	<i>Duration</i>	<i>Type of event</i>	<i>Date</i>
National dissemination seminar in Azerbaijan	2 days	National workshop	February 18-19, 2010
National dissemination seminar in Armenia	2 days	National workshop	March 2-3, 2010
National dissemination seminar in Georgia	2 days	National workshop	March 4-5, 2010
National dissemination seminar in Uzbekistan	2 days	National workshop	March 15-16, 2010
National dissemination seminar in Tajikistan	2 days	National workshop	March 18-19, 2010
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National dissemination seminar in Ukraine	2 days	National workshop	April 15-16, 2010
National dissemination seminar in Kyrgyzstan	2 days	National workshop	April 19-20, 2010
National dissemination seminar in Turkmenistan	2 days	National workshop	May 5-6, 2010
Final workshop	1 day	Regional workshop	July 7, 2010

The emphasis will be on the organization of national seminars to further discuss and disseminate the developed curricula and training materials and to expand and develop the regional network of training institutes. During these national seminars also representatives from the relevant Ministries of Transport will be invited to promote co-operation between transport universities and Ministries of Transport.

It is planned to formalize the establishment of a core group of universities and training institutes, which will constitute the drivers of change for the new curricula. If possible, a meeting will be scheduled at the end of the project with this core group of universities and training institutes.

The following outputs are planned:

- (1) 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.





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- Minimum 24 teachers/lecturers through direct regional training and 180 teachers/lecturers through national training have participated in pedagogical courses.

Started in March 2009; until July 2010.

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

These national training measures in will be organized from February until May 2010. An evaluation of these seminars will be presented in the next report as they will show us the way forward for the initiatives taken by the project.

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

On-going; until July 2010.

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

On-going; until July 2010.

The updated work plan for the project containing:

- Project Interim Report (Form 2.2)
- Resource Utilization Report (Form 2.3)
- Output Performance Report (Form 2.4)
- Plan of Operations for the next period; work programme for the months February – July 2010 (Form 1.6)

is attached in the TACIS standard format as in Annex 1, Annex 2, Annex 3 and Annex 4 to the present Report.

## 5.2 Sustainability and the need for continuation of the project

**We think that an extension of the project with another two years would enable the project to become fully sustainable<sup>2</sup>. As the project has entered its last six months, there are many signs and signals from the recipient higher education institutes and universities that a continuation of the project would be very welcome and even needed to take full benefit of the investment.**

Many universities and higher education institutes have showed interest in co-operation and establishing a regional professional network in the field of curriculum development in the field of transport planning, investment appraisal and multimodal transportation.

Implementation of new curricula, however, takes time – more than the two years of the project - and an extension of the project would enable and facilitate implementation and institutionalization of a regional platform.

The following needs were stressed during the implementation of the project:

<sup>2</sup> In the Service Procurement Notice under the heading 'Scope for additional services' it is stated: "The contracting authority may, at its own discretion, extend the project in duration and/or scope, subject to the availability of funding, up to a maximum not exceeding the length and value of the initial contract."





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1. *There is more time needed for tailor-made implementation at individual higher education institutes and universities*

We have tried to standardize curricula and training materials as much as possible, e.g. by building a common knowledge base on subjects in Transport Planning, Investment Appraisal and Multimodal Transportation and Interoperability. But it became obvious that the starting conditions, the specialization and the objectives of the recipient training institutions vary widely. (see reports). Because of that there is the need for more tailored activities in the regions and the countries. This can be done by TRACECA wide exchange of experiences but mainly through country related coaching and dissemination. This need simply more time in order to ensure the sustainability.

We also 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. The universities are very interested in the support of this project and it is clear that this development process will last at least until 2012. Technical assistance until 2012 would enable and facilitate this process.

So we propose to held national seminars to fine-tune curricula and training materials and organize more working meetings and coaching in the period 2010-2012.

2. *National indicators for transport planning and investment appraisal have to be elaborated*

It is necessary to develop complementary national-specific training materials:

- National standard specific values for Economic Investment Appraisal
- 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.

3. *Establishing a network of regional connections*

According to the Terms of Reference of the project, result 5 is that an in-depth appraisal for the establishment of regional links for advanced transport training is elaborated. In continuation of the project, this regional network should be further developed. In order to organize mutual learning and transfer of best practices we are presently already establishing a regional network of higher training institutions in the TRACECA region. We found out that some institutions are more advanced and more active than others. In order to bring forward the network we intend to form a core group of competence centres (Kiev-Ukraine, Baku-Azerbaijan, Almaty-Kazakhstan, Izmir-Turkey, Dushanbe-Tajikistan, etc.). This core group should take ownership and the lead in the application of new training curricula and training contents and new pedagogical methods. They could act as centres of competence in certain fields of specialization and could organize transfer within a network of scientists. The realization of a full operating core group within a larger regional network needs maturity in the contents and curriculum development and needs definitely more time. In the extension phase regular meetings





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of this core group could take place and annual conferences organized to exchange experiences in this respect.

4. *Establishing structural links between higher education institutes and Ministries of Transport in the TRACECA region*

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 to organize master-classes in transport planning, investment appraisal and multimodal transportation and interoperability for transport planners and transport policy makers. These master-classes could be given by joint teams of local higher education institutes and international experts.

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.

5. *Promotion of new pedagogical methods*

BA 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.

In a further continuation of the project, project management, business and simulation games could be made available for the co-operating universities and higher education centres. The STC in Rotterdam, one of the partners in this project, has developed several of such management games, such as the Supply Chain Simulator. It would be very useful to develop similar training tools for the TRACECA countries.

Also more time is needed to apply distance learning and e-learning training concepts.

6. *Development of a new curricula on Logistics Management*

Many recipients stressed the need for the development of a training curriculum on logistics management including topics as planning, management and operation of logistic centres; supply chain management; warehousing and distribution; transport logistics; logistic performance of TRACECA countries; etc.

In order to contribute to the sustainability of the TRACECA activities, it is recommended to increase the role of the Permanent Secretariat of the Intergovernmental Commission of TRACECA (PS) in the implementation of the project(s). Therefore, it is needed to strengthen the capacity of the PS in terms of human resources and capacity development.





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In terms of required input for the period January 2011 – December 2012 to carry out the topics identified above the following estimation is presented:

<i>Activity</i>	<i>Man time</i>	<i>PS man time</i>
Developing regional network	400 man days	100 man days
Assistance to implementation new curricula	100 man days	25 man days
Establishing structural links between universities and ministries – master classes	500 man days	125 man days
Development national technical planning indicators	200 man days	50 man days
Promotion new pedagogical methods	100 man days	25 man days
Development curriculum logistics	300 man days	75 man days
<i>Total</i>	<i>1600 man days</i>	<i>400 man days</i>
Incidental expenditures: including organization of - two international conferences - three regional seminars on implementation of curriculum development; technical planning indicators; and curriculum logistics - national seminars	640000 euro	





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## Annex 1 Project Interim Report

(Form 2.2)

Project title : <b>Strengthening of Transport Training Capacities in NIS countries (TRACECA)</b>		Project number : EUROPEAID/126298/C/SER/MULTI		Country : Armenia, Azerbaijan, Georgia, Kazakhstan, Kyrgyz Republic, Moldova, Tajikistan, Turkmenistan, Ukraine, Uzbekistan				Page : 1							
Period : 01/08/2009 – 31/01/2010		Prepared on : February 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	01	PERSONNEL LONG TERM EXPERTS (M-d)		PERSONNEL SHORT EXPERTS (M-d)		EQUIPMENT AND MATERIAL		OTHER	
								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							15	15	12	12				
05	Improve curricula and course contents and liaise with post-graduate departments Transport Planning							5	5	5	5				
06	Assist in course development for transport simulation and forecasting software							5	5	5	5				





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Project title : <b>Strengthening of Transport Training Capacities in NIS countries (TRACECA)</b>	Project number : EUROPEAID/126298/C/SER/MULTI	Country : Armenia, Azerbaijan, Georgia, Kazakhstan, Kyrgyz Republic, Moldova, Tajikistan, Turkmenistan, Ukraine, Uzbekistan	Page : 2
Period : 01/08/2009 – 31/01/2010	Prepared on : February 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	01	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							15	15	12	12				
11	Improve curricula and course contents and liaise with post-graduate departments Investment Appraisal							5	5	5	5				
12	Review teaching methods							20	20	10	10				
13	Training teaching staff Teaching Techniques							20	20	10	10				
14	Support training by post graduate departments Teaching Techniques							10	10	10	10				
15	Provide access to online libraries and other training materials Teaching Techniques							20	20	10	80				







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Project title : <b>Strengthening of Transport Training Capacities in NIS countries (TRACECA)</b>	Project number : EUROPEAID/126298/C/SER/MULTI	Country : Armenia, Azerbaijan, Georgia, Kazakhstan, Kyrgyz Republic, Moldova, Tajikistan, Turkmenistan, Ukraine, Uzbekistan	Page : 3
Period : 01/08/2009 – 31/01/2010	Prepared on : February 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	01	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							40	40	20	30				
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							30	25	20	20				
21	Assess regional experiences in training and research platforms							10	15	30	55				





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Project title : <b>Strengthening of Transport Training Capacities in NIS countries (TRACECA)</b>	Project number : EUROPEAID/126298/C/SER/MULTI	Country : Armenia, Azerbaijan, Georgia, Kazakhstan, Kyrgyz Republic, Moldova, Tajikistan, Turkmenistan, Ukraine, Uzbekistan	Page : 4
Period : 01/08/2009 – 31/01/2010	Prepared on : February 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	01	PERSONNEL LONG TERM EXPERTS (M-d)		PERSONNEL SHORT EXPERTS (M-d)		EQUIPMENT AND MATERIAL		OTHER	
								Planned	Utilised	Planned	Utilised	Planned	Utilised	Planned	Utilised
22	Organise discussions on establishing regional platforms and networks on training							15	14	30	35				
23	Carry out feasibility study on development of regional connections in the field of transport training							10	10	30	30				
24	Disseminate cooperation opportunities with European training institutes							10	10	30	30				
	<b>TOTAL</b>							<b>230</b>	<b>229</b>	<b>239</b>	<b>349</b>				





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## Annex 2 Resource Utilisation Report

(Form 2.3)

Project title : <b>Strengthening of Transport Training Capacities in NIS countries (TRACECA)</b>		Project number : EUROPEAID/126298/C/SER/MULTI		Country : Armenia, Azerbaijan, Georgia, Kazakhstan, Kyrgyz Republic, Moldova, Tajikistan, Turkmenistan, Ukraine, Uzbekistan		Page : 1	
Period : 01/08/2009 – 31/01/2010		Prepared on : February 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 <sup>3</sup>	PERIOD PLANNED	PERIOD REALISED	TOTAL REALISED	AVAILABLE FOR REMAINDER		
PERSONNEL (in man days)							
Team Leader/Transport Planning Expert	320	70	79	255	65		
Transport Economics Training Expert	240	60	60	192	48		
Multimodal Transportation Training Expert	115	40	30	85	30		
Pedagogical Expert	200	60	60	168	32		
Non key experts	1335	239	349	1078	257		
Total	2210	469	578	1778	432		
Incidental Expenditures in euro	520000	100000	100000	420000	100000		

<sup>3</sup> Corrected contract taking into account two addenda.





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### Annex 3 Output Performance Report

(Form 2.4)

Project title : <b>Strengthening of Transport Training Capacities in NIS countries (TRACECA)</b>	Project number : EUROPEAID/126298/C/SER/MULTI	Country : Armenia, Azerbaijan, Georgia, Kazakhstan, Kyrgyz Republic, Moldova, Tajikistan, Turkmenistan, Ukraine, Uzbekistan	Page : 1
Period : 01/02/2010 – 31/07/2010	Prepared on : February 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.	No deviation.		6 regional training measures have already been organized. 1 was cancelled and another one will be organized.
National training measures on a country-wide basis	No deviation.		
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.		Website created <a href="http://www.tracecatraining.org">www.tracecatraining.org</a> . LMS system installed for e-learning.
Implementation of network of regional connections for advanced transport training in the TRACECA region.	No deviation.		Website created <a href="http://www.tracecatraining.org">www.tracecatraining.org</a> . LMS system installed for e-learning.





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## Annex 4 Plan of Operations for the next period

(Form 1.6)

Project title : <b>Strengthening of Transport Training Capacities in NIS countries (TRACECA)</b>		Project number : EUROPEAID/126298/C/SER/MULTI					Country : Armenia, Azerbaijan, Georgia, Kazakhstan, Kyrgyz Republic, Moldova, Tajikistan, Turkmenistan, Ukraine, Uzbekistan			Page : 1	
Planning period: 01/02/2010 – 31/07/2010		Prepared on : February 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.											
		TIME FRAME						INPUTS			
		2010 (months)						PERSONNEL (Man-Days)		EQUIPMENT AND MATERIAL	OTHER
No	ACTIVITIES	02	03	04	05	06	07	Long term experts	Short term experts		
01	Review course contents and curricula Transport Planning							0	0		
02	Raise awareness for state-of-the-art techniques Transport Planning							0	0		
03	Develop course materials Transport Planning							0	0		
04	Training teaching staff Transport Planning							30	40		





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Project title : <b>Strengthening of Transport Training Capacities in NIS countries (TRACECA)</b>	Project number : EUROPEAID/126298/C/SER/MULTI	Country : Armenia, Azerbaijan, Georgia, Kazakhstan, Kyrgyz Republic, Moldova, Tajikistan, Turkmenistan, Ukraine, Uzbekistan	Page : 2
Planning period: 01/02/2010 – 31/07/2010	Prepared on : February 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	TIME FRAME						INPUTS			
		2010 (months)						PERSONNEL (Man-Days)		EQUIPMENT AND MATERIAL	OTHER
		02	03	04	05	06	07	Long term experts	Short term experts		
05	Improve curricula and course contents and liaise with post-graduate departments Transport Planning							0	0		
06	Assist in course development for transport simulation and forecasting software							0	0		
07	Review course contents and curricula Investment Appraisal							0	0		
08	Raise awareness for state-of-the-art techniques Investment Appraisal							0	0		
09	Develop course materials Investment Appraisal							0	0		
10	Training teaching staff Investment Appraisal							30	40		





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Project title : <b>Strengthening of Transport Training Capacities in NIS countries (TRACECA)</b>	Project number : EUROPEAID/126298/C/SER/MULTI	Country : Armenia, Azerbaijan, Georgia, Kazakhstan, Kyrgyz Republic, Moldova, Tajikistan, Turkmenistan, Ukraine, Uzbekistan	Page : 3
Planning period: 01/02/2010 – 31/07/2010	Prepared on : February 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	TIME FRAME						INPUTS			
		2010 (months)						PERSONNEL (Man-Days)		EQUIPMENT AND MATERIAL	OTHER
		02	03	04	05	06	07	Long term experts	Short term experts		
11	Improve curricula and course contents and liaise with post-graduate departments Investment Appraisal							0	0		
12	Review teaching methods							0	0		
13	Training teaching staff Teaching Techniques							30	40		
14	Support training by post graduate departments Teaching Techniques							0	0		
15	Provide access to online libraries and other training materials Teaching Techniques							0	0		
16	Training assessment evaluation Teaching Techniques							0	0		
17	Review course contents and curricula Multimodal Transport and Interoperability							0	0		





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Project title : <b>Strengthening of Transport Training Capacities in NIS countries (TRACECA)</b>	Project number : EUROPEAID/126298/C/SER/MULTI	Country : Armenia, Azerbaijan, Georgia, Kazakhstan, Kyrgyz Republic, Moldova, Tajikistan, Turkmenistan, Ukraine, Uzbekistan	Page : 4
Planning period: 01/02/2010 – 31/07/2010	Prepared on : February 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	TIME FRAME						INPUTS			
		2010 (months)						PERSONNEL (Man-Days)		EQUIPMENT AND MATERIAL	OTHER
		02	03	04	05	06	07	Long term experts	Short term experts		
18	Adaptation course contents and curricula Multimodal Transport and Interoperability							0	0		
19	Symposium incl. field studies/excursions Multimodal Transport and Interoperability							0	0		
20	Assist in introducing altered course contents Multimodal Transport and Interoperability							0	0		
21	Assess regional experiences in training and research platforms							20	20		
22	Organise discussions on establishing regional platforms and networks on training							20	20		





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Planning period: 01/02/2010 – 31/07/2010	Prepared on : February 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.

		TIME FRAME						INPUTS		
		2010 (months)						PERSONNEL (Man-Days)		EQUIPMENT AND MATERIAL
No	ACTIVITIES	02	03	04	05	06	07	Long term experts	Short term experts	
23	Carry out feasibility study on development of regional connections in the field of transport training							30	87	
24	Disseminate cooperation opportunities with European training institutes							15	10	
	<b>TOTAL</b>							175	257	100000





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## Annex 5 List of contacted persons; July 2008 – January 2010

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Olviya LLC	Olena Nevmerzhtiska	President	
Delegation of European Commission to Ukraine	Svitlana Didkivska	Sector Manager Transport	<a href="mailto:Svitlana.didkivska@ec.europa.eu">Svitlana.didkivska@ec.europa.eu</a>
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Association of International Road Carriers of Uzbekistan	Dr. Nikolay V.Kuznetsov	Head of international & analytical TIR department	<a href="mailto:aircuz@ars.uz">aircuz@ars.uz</a>
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Institute for Automobile Transport and Road Construction	Mrs. Sarvirova Natalya Sergeevna	Economy and Service Department	<a href="mailto:sarvirova2006@mail.ru">sarvirova2006@mail.ru</a>
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Institute for Automobile Transport and Road Construction	Mr. Butaev Sherzad	Chief of the Transport Chair	
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		and commercial works and stations"	
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<b>Other</b>			
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International Road Transport Union	Mr. Janusz Lacny	President	<a href="mailto:iru@iru.org">iru@iru.org</a>
International Road Transport Union	Mrs. Lobna AL LAMI	Project Officer, IRU Delegation to MES	<a href="mailto:lobna.allami@iru.org">lobna.allami@iru.org</a>
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## **Annex 6    Project Presentation Brussels 24-09-2009**







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Strengthening of transport training capacities for NIS countries for Armenia, Azerbaijan, Georgia, Kazakhstan, Kyrgyz Republic, Moldova, Tajikistan, Turkmenistan, Ukraine, Uzbekistan

# Strengthening of Transport Training Capacities

*EuropeAid/126298/C/SER/Multi  
August 2008 – July 2010*

René Meeuws  
Project Director and Team Leader  
Brussels, September, 24 2009



NEA Transport research and training

**WAGENER & HERBST**  
Management Consultants GmbH



**TRADEMCO**

SHIPPING AND  
TRANSPORT COLLEGE  
EST 1988



**STRENGTHENING OF TRANSPORT TRAINING CAPACITIES IN NIS COUNTRIES - INTERIM REPORT 3**

February 2010



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## Project Activities

- Familiarise teaching staff and students with latest transport planning (TP) techniques and tools
- Familiarise teaching staff and students with investment appraisal (IA) techniques and tools





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## Project Activities

- Improve pedagogical skills, teaching techniques (TT) and curricula development methods
- Develop departments / chairs for multimodal transport (MT) and interoperability
- Appraisal for establishment regional links for advanced transport training





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## Planned Outputs

- Various assessment reports on existing curricula and course contents: transport planning, investment appraisal techniques and tools, teaching methods, multimodal transportation and interoperability
- Curricula and course materials on the above mentioned subjects
- Developed training toolkits





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## Planned Outputs

- Teaching staff members and young scientists / students familiar with state of the art research of sustainable transport policy, planning and appraisal tools including multimodal transportation and interoperability
- Teachers/lecturers through direct regional training and through national training have participated in pedagogical courses





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## Planned Outputs

- Regional training measures
- National training measures on a country-to-country basis
- Feasibility study for the establishment of a network of regional connections for advanced transport training
- Implementation of the network



## Achievements

Project is on schedule:

- Regional training measures almost carried out; national dissemination seminars planned
- Curricula developed, training materials elaborated including TRACECA freight atlas
- Website operational ([www.tracecatraining.org](http://www.tracecatraining.org)), network being established





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## Follow-up 2010-2012

- Bringing transport universities and Ministries of Transport together
- Organizing master classes for staff of Ministries of Transport
- Strengthening regional network of training institutions on transport planning, investment appraisal and multimodal transportation
- Approval and implementation new curricula





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## Contact

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+(727) 3755255; [ist@nea.nl](mailto:ist@nea.nl)

Website: [www.tracecatraining.org](http://www.tracecatraining.org)

## Chapters TRACECA Atlas

- Trade and transport flows
- Passenger transport
- Transport policy in TRACECA
- Transport chains and intermodal transport
- Logistics in TRACECA perspective
- External effects of transport in TRACECA
- Further transport issues



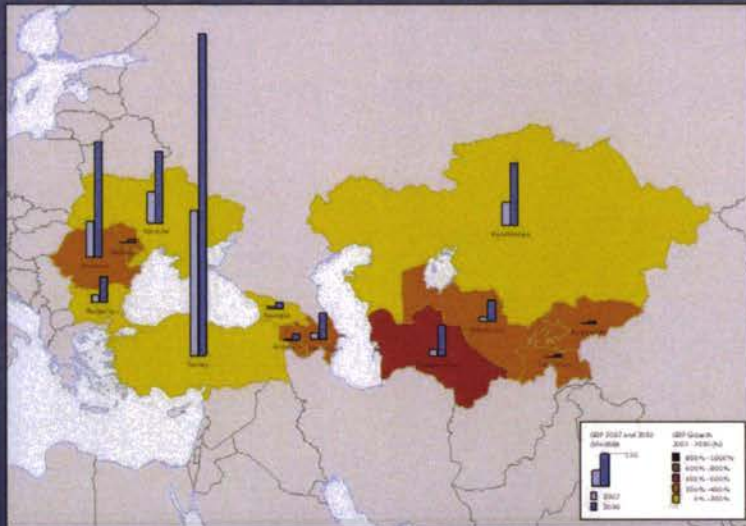




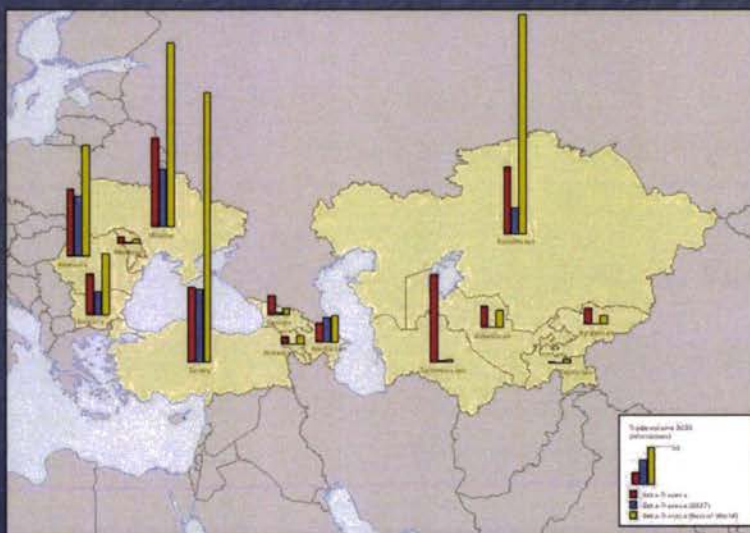
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## GDP growth 2007-2030



## TRACECA Trade volume 2030

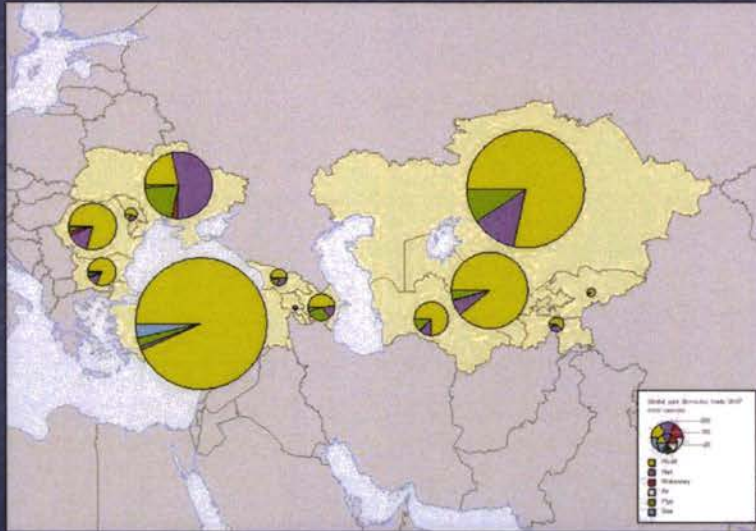




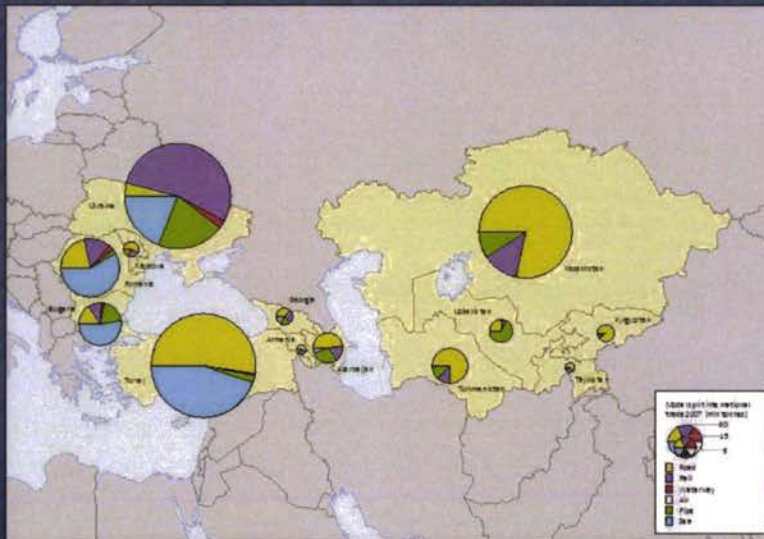
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## Modal split domestic trade 2007



## Modal split international trade 2007





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## Minimum, average and maximum border waiting times on major NELTI routes





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**Annex 7 List of participants Regional Workshop Chisinau, October 26-30, 2009**





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TRACECA Programme						
List of Participants						
No	Country	Person	Organisation	Position	Contacts	
<b>Pedagogical and educational methods and e-learning. Regional Workshop Chisinau, Moldova</b>						
1	Armenia	Mr. Bakhshyan Artak	State Engineering University of Armenia (SEUA)	Associate Professor, Deputy Director of the Transport Systems Department	<a href="mailto:cartingsect@seua.am">cartingsect@seua.am</a>	
2	Armenia	Mr. Sargsyan Valery	State Engineering University of Armenia (SEUA)	Lecturer		
3	Azerbaijan	Mr. Gozalov Sulhaddin	Azerbaijan Technical University	Associate Professor, Director of the Motor Transport Chair	<a href="mailto:ssszaz@gmail.com">ssszaz@gmail.com</a>	
4	Azerbaijan	Mr. Mammadov Rauf	Azerbaijan Technical University	Associate Professor of the Motor Transport Chair	<a href="mailto:rm58@rambler.ru">rm58@rambler.ru</a>	
5	Georgia	Mr. Darchiashvili Elizbar	Georgian Technical University	Associate Professor	<a href="mailto:elizbard@yahoo.com">elizbard@yahoo.com</a>	
6	Georgia	Mr. Iremadze David	Caucasus School of Business, Caucasus University	Management and International Studies, Director CSB Graduate Studies	<a href="mailto:diremadze@geoeduconsulting.com">diremadze@geoeduconsulting.com</a>	
7	Kyrgyz Republic	Mr. Orozbek Shatmanov	Kyrgyz State University of Construction, Transport and Architecture (KSUCTA)	Director Institute of Transport and Communications	<a href="mailto:ksucta@elcat.kg">ksucta@elcat.kg</a>	no appearance
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9	Moldova	Mr. Ceban Victor	Technical University of Moldova	Director of the Transport Engineering and Management Department	<a href="mailto:dr_ceban@mail.md">dr_ceban@mail.md</a>	
10	Moldova	Mr. Russu Boris	Chisinau Transport College Moldova	Director		
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21	Uzbekistan	Mr. Bulaev Sherzad	Tashkent Road Institute	Chief of the Transport Chair	
22		Ms. Nina Nesterova	NEA		
23		Mr. Bernard Janssen	Open University		
24		Mr. Godefridus van den Aardweg	TVM E-Learning/Brainnovation		
25		Mrs. Irina Ryndo	TVM E-Learning/Brainnovation		
26		Mr. Carel van der Baan	STC		
27		Mrs. Elizabeth van Groll	NEA		
28		Mr. Rene Meeuws	NEA		
29		Mr. Mikhail Prokofiev	Wagener & Herbst		
30		Mr. Norbert Wagener	Wagener & Herbst		
31		Mrs. Irina Starkova	NEA		
32		Mr. Ashraf Hamed	TRACECA Transport Dialogue		
33		Mr. Satybaldiev	Baku Office		
34		Mr. Anar Ismail	Baku Office		
35		Mr. George Emmanoulopoulos	TRADEMCO		
36		Mr. Biricov	NS TRACECA Moldova		
		Support staff Moldova			





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## **Annex 8 Programme Regional Workshop Chisinau, October 26-30, 2009**





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WEEK 44	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
09.00 to 10.00	Arrival	Opening and introduction Host, Project Team <sup>4</sup>	Group 1: Curriculum development 3  Group 2: E-learning and Teaching methods 3	The Bologna process: to make from a challenge an opportunity  Building a regional network	Departure
		Plenary session	Group sessions	Plenary session	
10.00 to 12.00	Arrival	Results curriculum development, training materials, e-learning, business games, website <sup>5</sup>	Preparation results from group sessions	Organization of National Dissemination Seminars and Project Support  Evaluation	Departure
		Plenary session	Group sessions	Project Team and Participants	
13.30 to 14.30	Arrival	Group 1: Curriculum development 1  Group 2: E-learning and Teaching methods 1	Presentation of results 1	The way forward  Evaluation	Departure
		Group sessions	Plenary session	Project Team and Participants	
15.00 to 16.30	Arrival	Group 1: Curriculum development 2  Group 2: E-learning and Teaching methods 2	Presentation of results 2	Departure	Departure
	18.00 Registration participants + cocktail	Group sessions	Plenary session		

<sup>4</sup> Eduard Biriucov (NS TRACECA Moldova; welcome), Rene Meeuws (project director; project introduction and programme)

<sup>5</sup> Norbert Wagener (curriculum development), Mikhail Prokofiev (teaching methods), Govert van den Aardweg (E-learning), Ben Janssen (Education development)







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### **Detailed Programme Attribution (TVM e-Learning)**

#### **Tuesday 10:00 to 12:00**

Curriculum Development  
Teaching Methods  
e-Learning  
Education Development

Norbert Wagener  
Mikhail Prokofiev  
Govert van den Aardweg \*)  
Ben Janssen

\*)

#### **Presentation 30 minutes**

Introduction about the development process  
Educational Model used (Gagné, modular and layered concept)  
Adding Interactivity  
Publishing in e-Learning environment

#### **Tuesday 13:30 to 14:30**

Group 2: e-Learning and Teaching Methods

Presentation of e-Learning courses

- Log on to the system
- Navigation in the system
- Starting a course, answering questions
- Checking results, scores
- Library
- Hands-on practice for all participants

#### **Tuesday 15:00 to 16:30**

Group 2: e-Learning and Teaching Methods

Course development in a Learning Management System

- Short introduction about course development (analyse, design, check, built, test, release)
- Presentation of possibilities for course development using a Learning Management System
- Hands on training modules about course development (LMS training how to use)
- Educational models (efficient course development, knowledge management, types of





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training)

- Documentation for teachers using the Learning Management System (PDF file)

### **Wednesday 9:00 to 10:00**

Group 2: e-Learning and Teaching Methods

#### **e-Learning as a project**

- Combination of educational steps and project organisation (model, addendum B in English)
  - Analyses of educational needs
  - Design process
  - Scripting, testing
  - Production of content
  - Testing
  - Publishing
- Adding, editing content  
Technical issues  
Project management  
Content management

### **Wednesday 15:00 to 16:00**

Group 2: e-Learning and Teaching Methods

Presentation of results 2

In this session the question can arise how to proceed with the e-Learning system by 13 countries / universities in this countries.

Three models to maintain and edit content can be used:

- One e-Learning system for all participants  
In this case editing content must be organised among all participants
  
- One e-Learning system per country  
In this case editing content can be organised within one country and used by several universities
  
- One e-Learning system per university  
In this case editing can be done within a university





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The e-Learning system is able to copy all course content to be used in all models.

### **Group 2: e-Learning and Teaching Methods**

In the Programme there will be:

- Presentations (powerpoint)
- Hands on training
- Discussion

All presentations and e-Learning modules (also Learning Management System) are available in the English language.

The Russian translations of e-Learning modules are not available.

The Learning Management System is only available (full scale) in English.

### **Language**

All Presentations will be in English, so an interpreter is necessary when the participants can not understand English.

At the hands-on training two persons can use 1 computer.

Hopefully one of two can understand English and help fellow student.

If no-one is understanding English all hands-on training will be presented with the use of an interpreter.

### **Internet / computers**

All presentations of course materials and use of the Learning Management System can only be done by use of internet connection(s).

The setting in the conference room should be:

6 computers for the participants (2 per computer)

Presenter has own computer/laptop

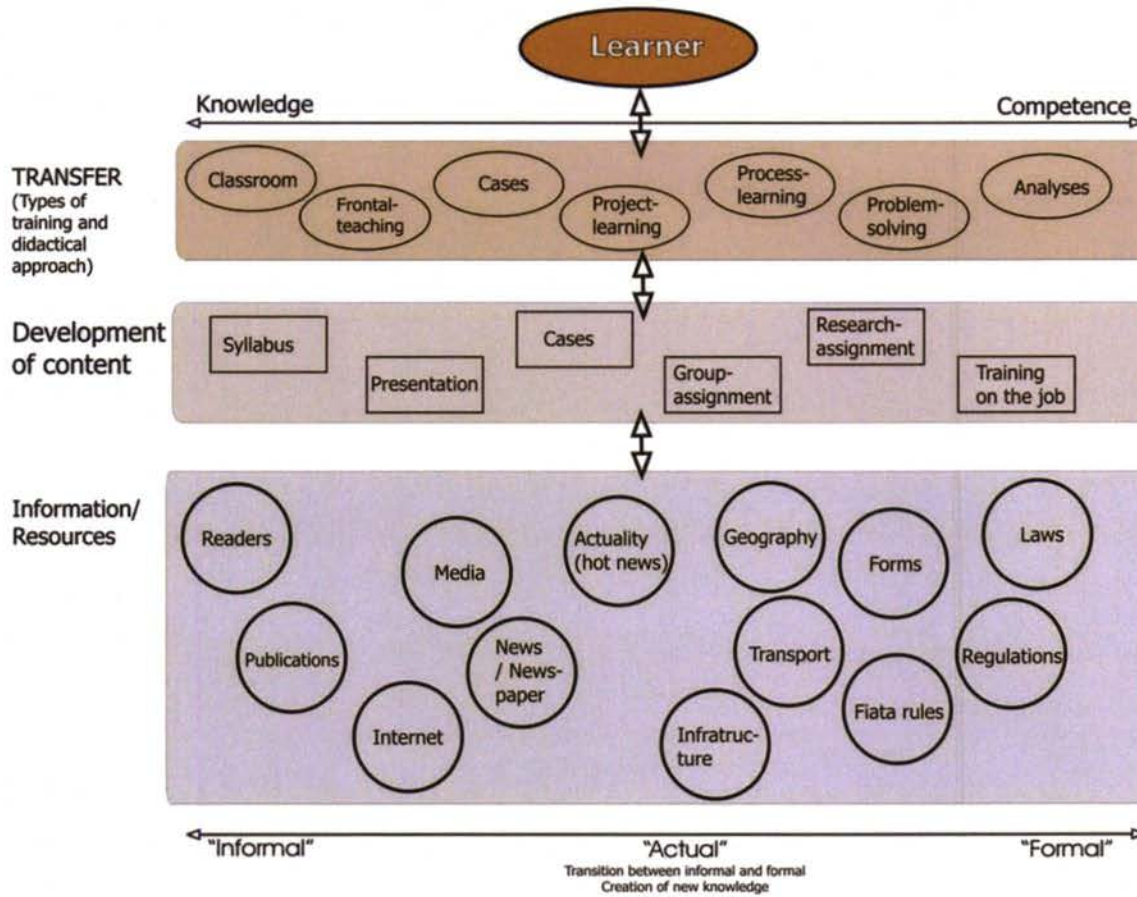
Beamer for presenting to the Group

Internet connections for all computers (7)



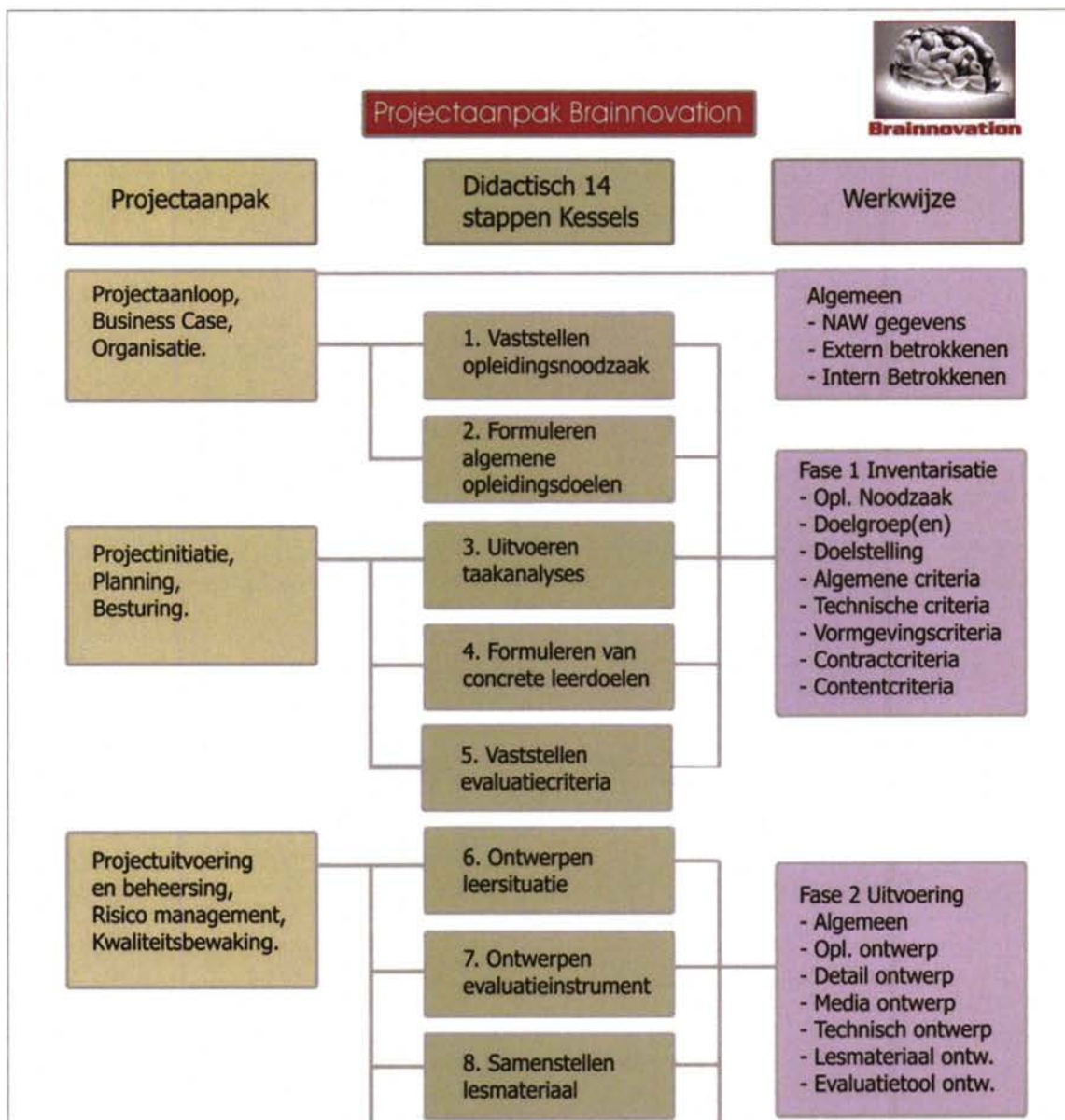


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## **Annex 9 Results Evaluation Regional Workshop Chisinau, October 26-30, 2009**





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## Evaluation

### Programme Regional Workshop Pedagogical and Educational Methods and E-Learning Chisinau, Moldova October 26-30, 2009

1. What do you think about the choice of topics that have been presented?

Excellent	Good	Neutral	Poor
84%	16%	0%	0%

2. How would you evaluate the training seminar?

Excellent	Good	Neutral	Poor
61%	39%	0%	0%

3. Was the training seminar beneficial to you personally?

Excellent	Good	Neutral	Poor
72%	28%	0%	0%



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4. What is your opinion of the Conference organization?

Excellent	Good	Neutral	Poor
84%	16%	0%	0%

5. What is your overall impression of the event?

Excellent	Good	Neutral	Poor
89%	11%	0%	0%

Observations:

- It is important to have more seminars on curriculum development, teaching methods, e-learning techniques and use of simulation games.
- Accreditation of curricula by Ministries of Education is important.
- Establishment of a regional network is priority.
- National seminars should be made tailor-made: selection of participants is important and contents of the programme should be discussed on a country-by-country base. Recipient institutes, NS TRACECA and other national authorities will come up with proposals before November 30, 2009. These seminars will be organized between January-May 2010.







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	<b>Pedagogical and educational methods and e-learning regional workshop</b>
Results:	<p><b>Discussion in Pedagogical Working Group (Main Points)</b></p> <p><i>Prof. Gezalov (TU Baku)</i> proposed to include the Multimodal Transport module into the transport economist bachelor study obligatory. Transport Planning is not necessary for the bachelor, it should be part of specialization in master studies. Investment Appraisal could be integrated partly into bachelor, full scope for Master studies. Prof. Gezalov informed that Azerbaijan is participating in the Bologna process officially since 2009. Altogether there are 176 specializations. Each specialization must be confirmed by the cabinet of Ministries. After that confirmation the universities develop the curricula. There is a Bachelor "Multimodal Transport" and a Bachelor "Marketing and Transport Business". The latter includes aspects of Investment Appraisal. For the Master study new curricula "Transport Planning and Modelling" and "Transport Infrastructure" have been developed and are subject for approval now. Investment Appraisal and Transport Planning are included in that.</p> <p><i>Prof. Ceban (TU Moldova)</i> informed that Multimodal Transport has been included in bachelor study since last year. Transport Planning and Investment Appraisal are included in Master studies since June 2009 (47 students). A general problem is the structure of the Moldovan transport industry, where small truckers prevail. There are almost no bigger operators, suited for Multimodal Transport.</p> <p><i>Prof. Prokofiev</i> explained the structure of the Multimodal Transport lectures of MADI Moscow with 110 units.</p> <p><i>Prof. Tursunov (Tajik TU Dushanbe)</i> informed that Tajikistan signed the Bologna process and that implementation will be started in 2011. The first bachelor studies will be in Business &amp; Management. In engineering the longer specialist study will prevail. A transition to bachelor is difficult. The material developed by the project is very useful and can help a lot in this initial stage. Multimodal Transport is already used in the curricula. The TU has a laboratory for business games and for e-learning.</p> <p>Prof. Tursunov proposed a common information system on the regulatory framework for higher education. <i>Irina Starkova</i> mentioned that this could be part of the tracecatraining – website (<a href="http://www.tracecatraining.org">www.tracecatraining.org</a>).</p> <p><i>Elena Orynassar (Head of Quality Management and Accreditation, Eurasian University Astana, Kazakhstan)</i> informed that according to a law from 2004 in Kazakhstan only Bachelor and Master studies apply, no specialists anymore. Transport Planning and Investment Appraisal are optional components in the Master study. Multimodal Transport is still under consideration. She will raise the subject in the scientific council.</p> <p><i>Prof. Kalmamat Atabekov (Kyrgyz State TU)</i> stated that MMT is part of specialization in bachelor study and includes project work. The bachelor study takes 4 years, the master study 2 years. For specialization in Multimodal Transport, Transport Planning and Investment Appraisal the lecturers need to be trained. Handbooks must be developed. This needs one year training.</p> <p><i>Prof. Elizbar Darshiashvili (Georgian TU)</i> informed that they are fully independent. The council of the university decides on studies and curricula. Accreditation system exists. Transport and logistics is included in curricula.</p> <p>Prof. Khayrulloevich Khabibulloyev (Tajik TU Dushanbe) mentioned that Transport Economics is included in Engineering studies. The Bachelor study in Economics just started. In other disciplines the specialists still exist. Multimodal Transport is covered as a discipline. Investment Appraisal is included and compulsory under the heading "General Transport System".</p>





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*Prof. Hakki Kisi (Dokuz Eylul University, Izmir)* stressed that Multimodal Transport is covered in Izmir, since ports are important nodes in multimodal transport. He stressed that law issues are very important to be integrated into the curricula (legal and technical regulations).

*David Iremadze (Georgian Caucasus School)* stressed that business schools should be the leader at the Master level (MBA).

*Prof. Firuza Karimova (Tashkent Railway Engineers Institute)* informed that the institute is financed by the Ministry of Railways. Because of the railway focus of the institute Multimodal Transport is of less interest. The Gosstandard is approved by the Cabinet of Ministries and consists of: a) social-humanitarian subjects b) fundamental disciplines c) general engineering d) specialization disciplines. There is no freedom to change the contents. The volume of hours can be changed by 5%.

*Prof. Sergey Andruzenko (NTU, Kiev)* remarked that Gosstandards exist, but in each university there are disciplines of optional choice, which show "the face of the university". This enables the integration of new subjects. A problem for new subjects like Multimodal Transport is the absence of practical experience.

#### Conclusions

Higher education is regulated by Gosstandard (= state national standard). In general 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

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

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.

There is the age problem, that the majority of lecturers is over 65 years old. It is clear that new subjects are more difficult to be implemented therefore. Who will teach the new subjects? Special handbooks and training in particular for younger teachers or PhD students on the subjects Transport Planning, Investment Appraisal, Multimodal Transport are necessary. This needs one year thorough training and practical case studies, site visits etc. Guest lecturers from he industry should be invited to qualify the teachers.

The national seminars should be prepared by the leading recipients in each country. All major stakeholders should be invited, like Ministry of Education, Ministry of Transport, transport operators, accreditation agencies, other institutes, students (max. 20 people). The universities should send proposals for the national seminars. Coordination via National Secretaries and Training Coordinator Irina Starkova.

