

**Sustainable Development, Global Change and Ecosystems, Sustainable  
Surface Transport**



**Central European Research in Transport INfrastructure**

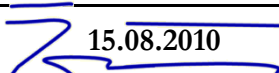
**Publishable Final Activity Report**

Project Number: **031457/2006**  
Reporting Period: **01 June 2006 - 30 June 2010**  
Date of preparation: **15 August 2010**

Start date of project: **01 June 2006**  
Duration: **49 months**

Project coordinator name: **Aleš Žnidarič**

Project coordinator organisation name: **Zavod za gradbeništvo Slovenije (ZAG)**

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## PROJECT EXECUTION

### 1.1 Project objectives

The aim of the EC-funded Coordination Action project CERTAIN (Central European Research in Transport Infrastructure) was to facilitate integration of the EU New Member States (NMS) and other Central and Eastern European countries (CEEC) into the established road infrastructure research of the European Union.

CERTAIN was comprised of four work packages. WP 1, provided the necessary clustering environment for the STREP projects from the same call: SPENS, ARCHES, Heavyroute, and other relevant on-going projects in which they were working in synergy to provide maximum output for the NMS and CEEC without duplicating their work. Since language is considered to be a major obstacle for efficient dissemination of European research results in the NMS and CEEC, the WP2 organised seven workshops in six mother languages to attract much higher number of the interested end-users than usually attend international conferences. The WP 3 focused on training courses for leaders of European research projects. The WP4 concerned the dissemination of results through web-based systems and through direct contacts.

### 1.2 Contractors involved

The four partners of the CERTAIN project are:

- ZAG – Zavod za gradbeništvo Slovenije (Slovenian national Building and Civil Engineering Institute), Slovenia, project coordinator and WP 1 leader,
- IBDiM - Instytut Badawczy Dróg i Mostów (Road and Bridge Research Institute), Poland, WP 2 leader,
- CDV - Centrum dopravního výzkumu (Transport Research Institute), Czech Republic, and
- FEHRL - Forum of European National Highway Research Laboratories, Belgium, WP 3 and WP 4 leader.

### 1.3 Co-ordinator contact details

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## 1.4 Work performed

### 1.4.1 Organisation of workshops

The aim of the workshops was to promote wide dissemination of results from the clustered project through organisation of national workshops in mother languages and workshops attached to the major European events in the area of road research.

Lack of information delivered to the end-users from the NMS and CEEC in their languages and their limited attendance to the European or international conferences are without any doubt two of the main reasons that the results of European research projects are poorly implemented in these countries. Thus, the two objectives of WP 2 were:

- to deliver results of the European road infrastructure research projects, especially the STREP projects from the CERTAIN cluster dedicated to NMS and CEEC, to the end-users in these countries through workshops organised in mother languages.
- to present experiences and specifics of road infrastructure research in NMS and CEEC in a form of workshops at major international events in the area of road infrastructure.

Common experience of participants from all NMS that were active in the past European RTD activities is that *results of the projects were not properly disseminated* in their countries and that their contribution to the European research was often better known outside than inside their countries. International conferences, congresses and workshops attract many participants from NMS, but these are mainly researchers and scientists and not the end-users or other stakeholders that should benefit from the results of European research. Even final seminars of specific RTD projects, if organised, have attracted only a few end-users from the NMS and CEEC, mostly from those countries that took an active role in the projects.



**Auditorium of second Czech (left) and Polish (right) national workshop.**

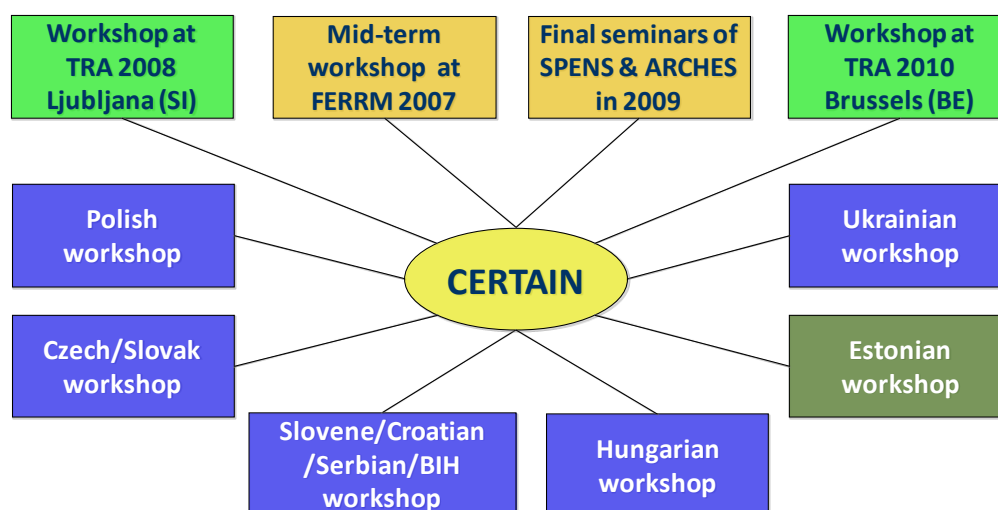
Another obstacle is generally *insufficient knowledge of English* of the end users, which prevents them from taking active part during such events. Studies show that the level of English speakers in most CEEC is substantially lower than in the Western Europe and this creates a barrier.

To improve this situation and to establish links with national audience in these countries, *CERTAIN organised workshops in local mother languages* dedicated to the road infrastructure research. Primarily, this included presentations of the ARCHES and SPENS, but also other relevant projects. As many conferences in the field of transport already exist, the clear intention of CERTAIN was not to duplicate existing efforts but, if possible, to add special sessions to the existing national events. These were conducted in mother languages to ensure the greatest possible active participation from local stakeholders.



Audience (left) and students of civil engineering with CERTAIN coordinator (right) at the Slovene national seminar

CERTAIN provided technical and organisation support for all regional workshops and *translation of some material* related to these workshops. The technical contents of the presentations were mainly provided by ARCHES, SPENS and other road infrastructure research projects.



Network of workshops organized by CERTAIN cluster

Another important CERTAIN task was to use the *major international events* in the area of transport research, the Transport Research Arena conferences in Ljubljana and Brussels, to present the CERTAIN cluster activities to the widest possible audience in the area of road transport. Due to the time constraints, presentations were limited to one parallel session for the entire cluster.

All workshops, national and international, were not only presenting the European research projects. Their purpose was to invite the local researchers and end-user to share their experience from the areas of interest. The earlier workshops were providing the running research projects with the feedback on where to focus the research (what the real needs of the end-users were) and the later ones how to present the conclusions in the most efficient (end-user-friendly) ways.



**CERTAIN strategic session at TRA2008 in Ljubljana**

The following national and international workshops were organized in the scope of CERTAIN project:

- CERTAIN/NR2C Workshop (November 2007),
- Workshop at TRA 2008 (April 2008),
- Polish National Workshop – part 1 (May 2008),
- Hungarian National Workshop (September 2008),
- Czech National Workshop (November 2008),
- Slovenian National Workshop (May 2009),
- Ukrainian National Workshop (May 2009),
- Estonian National Workshop (June 2009),
- ARCHES/SPENS Final Seminar (August 2009),
- Polish National Workshop – part 2 (October 2009),
- Workshop at TRA 2010 (10 June 2010).



**Auditorium of ARCHES/SPENS Final Seminar (left); EC project officer, Mr. William Bird (second from the left), with the coordinators of projects ARCHES, SPENS and CERTAIN (right).**

The four international events held in English should be seen as forums for exchange of information and opinions with other specialists in the fields who were not involved in the work of the *SPENS* and *ARCHES* consortia. Based on fruitful discussions at all events we can conclude that this was clearly achieved and that the members of ARCHES and SPENS consortia have obtained useful feedbacks that shaped conclusions of their work.



The workshops and seminars organised at national levels and *in mother languages* have not been very common in the previous FP programmes, at least not in the area of road infrastructure. Yet, they were carrying perhaps even a more important mission: to spread the knowledge and results of the FP research projects among the great majority of practitioners who rarely attend international events where they could get acquainted with the latest developments in their fields of professional interest, or may even have difficulties communicating in English. In all 6 countries these seminars have attracted over 300 road and bridge operators and administrators, designers, managers, clients, contractors, researchers, academicians, journalists and even politicians. The workshops without any doubt fulfilled their purpose:

- by giving the listeners an overview of the research carried out by their foreign colleagues in other member states,
- by informing them about the possibilities to implement the results in their practical work and
- by presenting the opportunities for their future involvement into trans-national research activities.

Participants of all events highly appreciated the possibility to obtain information in their mother languages.

From the organisation point of view, two approaches were tested. All international and three national events were organised *as a part of another bigger event*, such as a conference, congress or fair. The remaining national seminars were managed *as individual events*. The success, if measured in number of participants, was not associated to any of the two approaches, but clearly to the efforts put into the organisation, especially promotion, and, in the case of national events, personal contacts. Nevertheless, without the financial support from a project like CERTAIN, it is likely that in the future the first option may be more favourable, as the participants would be able to attend several events. It would also help saving the resources (time, organisation costs etc.) and would benefit from the existing promotion and potentially the registration fee of the bigger events that the national seminars would be linked to.

The clear recommendation from the work done in CERTAIN Work package 2 is that the future Framework Programmes and other trans-national research projects *should allocate some resources to present their results not only in English*, but also in the mother languages of the partners. The most efficient way of doing it would be through a horizontal coordination action, like CERTAIN, which would cluster activities of several related research projects and would prevent from organising similar events by different consortia.

More information about CERTAIN national and international workshops can be found in Deliverable D2.4 *Final Report on National and International Workshops* available on CERTAIN website: [http://certain.fehrl.org/index.php?m=7&mode=download&id\\_file=9685](http://certain.fehrl.org/index.php?m=7&mode=download&id_file=9685).

#### **1.4.2 Project management training**

The objective of the training of research project managers was to develop and implement a package of *training for new and aspiring leaders of collaborative European projects*. Greater integration of the NMS and CEEC into the European R&D, the ERA (European Research Area) and better implementation of road research require more active participation from these countries in the international research activities.

Czech Republic, Hungary, Poland and Slovenia have contributed to the European research activities in the area of road transport (COST actions and RTD projects from the FP4 to FP6 programmes), but only as partners, in a few cases as work package leaders or scientific coordinators and never as project coordinators. If NMS and CEEC coordinators submitted the proposals,

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they were usually not prepared adequately and were not financed, which discouraged the participants from these countries to try again.

To overcome this problem, CERTAIN has been organising courses where experienced research project leaders and other professionals taught the candidates, to great extent from NMS and CEEC, how to prepare and lead European research projects.

*Two courses* were planned to be organised – each of which in two phases – but due to a great response of participants and their organisations, an *additional third* training course (in one phase) was done.

*At least 50 % of the participants were planned from the NMS and CEEC* in order to encourage the joint development of proposals with peers from Western European countries and accelerate integration into European RTD activities. *A significant percentage of the participants were also expected to be females.*

Courses were developing an understanding of processes and techniques for successfully delivering large multi-national projects. Supported by training material and web-based tools, the plan was to provide future project managers with the skills, confidence and continued support to develop future projects. The trainees enlarged their organizational and financial skills thanks to the quality of the training pack used.

*The first course* of the European Project Management Training (EPMT) was held in 2007 at the FEHRL premises in Brussels. Exactly 50 % of the trainees were from NMS and CEEC and 60 % were females. This result was very encouraging since the number of trainees from NMS and CEEC could easily be higher, but some countries like Bulgaria, Romania and Slovakia could not afford to send people because of travel expenses associated with the training courses. Based on the feedback from participants it was clear that the course was a success, though some modifications for the next course were necessary.



**The participants of the first (left) and the third (right) CERTAIN training course**

*The second course* was organised in February and June 2008 at FEHRL offices in Brussels and was attended by 18 new potential research project leaders from. The quota of 55 % of participants from NMS and CEEC and 60 % female was reached (38 % were female from NMS).

Compared with the first course, the definition of the group assignments was better defined and had detailed instructions with more guidance.



**Second project management training – group work.**

After each course, all the handouts and presentations, including the group assignments were uploaded to the CERTAIN website and each participant received a CD with all relevant information.

As the first two sessions of the European project management trainings were so successful and pushed by some of its members, FEHRL decided to organise a new training course. With some adjustments (reduction of the duration of the training to 3 days, the omission of the project assignment, new type of group work), *the third session* took place in September 2009 and trained 18 new participants, including 37 % NMS, 37 % females and 21 % females from NMS.

This third session was considered as a pilot for possible continuation after the end of the CERTAIN project and was very conclusive. The trainers' team has now settled its experiences and the readjusted programme meets the needs of the trainees. After the very positive and constructive evaluation, FEHRL is willing to continue, even after the end of the CERTAIN project.

Finishing the third project management training, it was important to draw conclusions from the feedback of the trainees and the brainstorming of the trainers' team. It was interesting to make a comparison of the evaluations made by the trainees of all three different sessions. Generally, with each session, the results have improved. One of the results is the consideration that the level of the training should be raised by creating an advanced course.

A new training course is already planned to be held in November 2010 in Brussels based under the same scheme as the session of the course in September 2009.

More information about CERTAIN project management trainings can be found in Deliverable D3.3 *Final Report of First Training Course with Recommendations for Further Ones* on CERTAIN website ([http://certain.fehrl.org/index.php?m=7&mode=download&id\\_file=5964](http://certain.fehrl.org/index.php?m=7&mode=download&id_file=5964)). Training pack of the first course is available as Deliverable D3.1 ([http://certain.fehrl.org/index.php?m=7&id\\_directory=598](http://certain.fehrl.org/index.php?m=7&id_directory=598)) and Appendix of D3.3 ([http://certain.fehrl.org/index.php?m=7&id\\_directory=944](http://certain.fehrl.org/index.php?m=7&id_directory=944)).

### **1.4.3 Secondment**

Secondment programme in the scope of CERTAIN project offered work/learn opportunity in an international environment at the FEHRL office in Brussels. The aim of this program was to familiarise the secondees from NMS with international project activities and provide them with the opportunity to enhance networking among the FEHRL institutes, the European Commission and other international Organisations. The Secondment expanded perspectives and increased motivation by experiencing different research concepts and cultures.

<p><b>Monika Kowalska-Sudyka</b> Jan – April 2007 mkowalska@ibdim.edu.pl</p>	<p><b>Nina Gartner</b> Jan – April 2007 nina.gartner@zag.si</p>	<p><b>Martin Pipa</b> June – Oct 2007 martin.pipa@cdv.cz</p>
		
<ul style="list-style-type: none"> <li>• The Secondment is a great apprentice for interested parties in Project Management.</li> <li>• Very effective and helpful networking.</li> <li>• I mainly worked on financial issues of FP6 projects, yearly report preparation, and collecting information on the new rules and differences between FP6 and FP7.</li> <li>• The Secondment had a positive effect on my division - I am now the research coordinator for IBDiM and my division is responsible for all International Cooperation.</li> </ul>	<ul style="list-style-type: none"> <li>• I had a close liaison with the projects managers and research developers from all of the FEHRL institutes, as well as the European Commission, and the European transport-related platforms.</li> <li>• My English language skills are far more developed, providing me with a lot more confidence for a good and efficient level of communication in the English language.</li> </ul>	<ul style="list-style-type: none"> <li>• My main tasks were organizing the Project Management training, organizing the “Intelligent Highways” Workshop, and creating a HeavyRoute project deliverable on dissemination strategy.</li> <li>• A secondment at FEHRL is a kind of life-changing experience that positively contributes to your personal evolution.</li> <li>• It increased my knowledge in the Transport Research area and provided valuable training and practice to augment my professional skills.</li> </ul>

Within CERTAIN project three people from NMS institutes (ZAG, IBDiM and CDV) were seconded to FEHRL office in order to gain a broad spectrum of knowledge on European Project Management.

After the successful CERTAIN secondment, five other persons from NMS countries were hosted by FEHRL under several projects (also ARCHES and SPENS).

From now on FEHRL has developed a “Secondment programme” and is regularly offering the position of secondee in their premises.

**A CERTAIN project secondee’s experience in their own words (from “FEHRL Secondment” brochure)**

### 1.4.4 Exploitation

The successful achievement of the objectives of WP4 included the preparation of package of web tools for the collection, dissemination and exploitation of knowledge, developing synergies between the clustered projects (ARCHES, SPENS and Heavyroute) and other major initiatives include the publication of outputs in different languages as well as the promotional and dissemination activities of the CERTAIN project. The main objective of WP4 was to foster and organise clustering and knowledge sharing, support cohesion and promote excellence in Central and Eastern European Countries as well as display links and synergies between projects and stakeholders/end users.

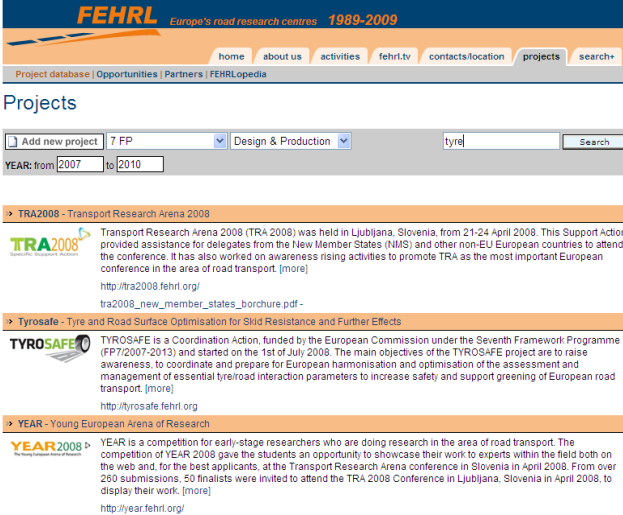
### **Web services and tools**


The CERTAIN cluster primarily focused on co-ordination between the projects relevant to the New Member states, to exploit the synergies, identify the gaps and maximise the dissemination. To support the dissemination and exploitation of results, several new databases, including the FEHRLopedia were developed and launched for public use.

The CERTAIN web system embedded in the FEHRL platform provides users with access to information about all projects in the cluster and with direct links to reference material – so called the *Project Database* (<http://www.fehrl.org/index.php?m=155>). To maintain the quality and authority of the database, selected experts in all countries are entitled to upload the contents of a project with a final acceptance of the administrator to publish the contents in the database. Data has already been exchanged with TRB project database by XML code. The same will be done with the data base of OECD, TRIP and the ERA-NET ROAD.


The *FEHRLopedia* (<http://www.fehrl.org/index.php?m=192&project=0>) has been designed as a portal to road infrastructure knowledge. It is a referencing system for technical reports as a reference library, for literature reviews, final reports, etc. The system links relevant contents from numerous reputable sites on the internet or research reports. It provides a common place to search for knowledge on road research in using existing information/databases with feedback

from the users (rating and comments). It supports the dissemination and exploitation of results of clustered projects in English and in other national languages. To reduce the language barrier, it has a possibility to get a systematic Google translation in all the European language of the selected report.





Searching by different parameters in Project Database (left); example of detailed project description in Project Database (right)



Home | Work packages | Partners | File manager | News | FEHRLopedia | Calendar | Deliverables | Search

### FEHRLopedia

The FEHRLopedia has been designed as a portal to road infrastructure knowledge. The system links relevant content from numerous reputable sites on the internet. Users can search for information using different selection criteria; including project type, target end user, and technical scope. Users can also new content and rate existing content according to the usefulness of the links.

content	rating	viewed	date
<a href="#">New Road Construction Concepts - Final Report</a> The NR2C objectives were firstly to provide a long term vision of the road infrastructure and secondly to develop specific innovations in three fields: urban infrastructure, interurban infrastructure and bridges. NR2C has developed long-term perspectives, concrete pilot projects and research recommendations, linking long-term visions and ideas to short-term actions. A vision reflecting society's perception of road infrastructure in the year 2040 forms the basis of NR2C's aim to ide ...[more]	4.75	303	06.05.2009
<a href="#">Procedures Required for the Assessment of Highway Structures</a> This highway network is currently the most important part of the land transport infrastructure in the EU, and the proper upkeep of the stock of structures on the network is crucial to its efficient operation. Whilst considerable effort has in recent decades been put into the development of new standards and codes for the design of new structures, comparatively little has been done on the development of guidance documents covering the assessment of existing structures. This European Commission Ac ...[more]	0	102	04.05.2009
<a href="#">NR2C - New Road Construction Concepts</a> What will the European road system look like in 2040?, how can innovation deliver solutions to the challenge of the future, which combines simultaneously growing transport needs and sustainability goals ?, such are the two crucial questions to which NR2C aims to answer. Consequently its objective were firstly to provide a long term vision of the road infrastructure and secondly to develop specific innovations in three fields : urban infrastructure, interurban infrastructure and bridges. The tw ...[more]	0	45	23.07.2009
<a href="#">Guidelines for the management of road surface skid resistance</a> Overview of the skid resistance, its connection to road safety and the road management. ...[more]	0	2	19.08.2009

FEHRLopedia

Users can search for information with different selection criteria; including project type, target end user, language and technical scope. Users can also add new content and rate existing content according to the usefulness of the links. The focused users are all stakeholders, researchers, industry, infrastructure owners/maintainers, end-users, etc. from all over the world without restriction (registration is encouraged).

*Research Infrastructure Database* is additionally developed web tool that is currently in process of testing and will be fully operative after the end of CERTAIN project. The objective of this database is to encourage research institutes to share large-scale testing facilities and to have an effective easy to search tool for identifying facilities that have capacity available for extra testing performed in accordance with a specific test method. In implementing on the FEHRL Content Management System, the laboratories database will link to the new FEHRL *Partner Database* and the *Facilities Database*. This will allow a user to view an institute and see what equipment their institute has, as well as link to projects they were previously and currently involved in.

### **Translation of project outputs**

Beside translations of different leaflets and web tools in languages of NMS and CEEC, CERTAIN project organised and published translations of the project executive summaries of ARCHES and SPENS and other selected documents into relevant languages. The main purpose was to disseminate the project results in the national road research institutes to enlarge the awareness.

The SPENS Final Summary report was translated into Hungarian, Polish, Slovenian, Serbian, Czech, and additionally in Ukrainian and Bulgarian. Furthermore, SPENS D20 Executive report was also translated into Estonian. All translated documents are available at this address: [http://certain.fehrl.org/index.php?m=7&id\\_directory=2003](http://certain.fehrl.org/index.php?m=7&id_directory=2003).

For ARCHES, the Final Summary Report was translated into Slovenian, Polish, Czech, Bulgarian, and Estonian. All translated reports are available at this address: [http://certain.fehrl.org/index.php?m=7&id\\_directory=2003](http://certain.fehrl.org/index.php?m=7&id_directory=2003).



Front pages of translated ARCHES and SPENS reports

### **Dissemination and publicity material**

CERTAIN put in place mechanisms and instruments to pull knowledge from clustered projects and relevant stakeholders. Close working relations were established and maintained with the parallel projects ARCHES, SPENS and Heavyroute. Many project brochures, newsletters and other dissemination and publicity material was designed and produced to provide general information

about the project activities to the public and to raise awareness of the importance and relevance of the research work carried out in the CERTAIN Cluster.



Exhibition booth at the TRB 2009 in Washington, focusing on NMS activities (left) and at the TRA 2010, promoting CERTAIN parallel session on NMS and CEEC issues

CERTAIN has also taken part in many international events with considerable input from NMS. Usually NMS issues were promoted through FEHRL exhibition stands or through oral presentations of FEHRL and other CERTAIN experts.



Exhibition booth at the European City of Sciences in Paris (left) and Commissioner Dr. Janez Potočnik on exhibition booth at ERTRAC press conference in Brussels (right)

## 1.5 End results, methodologies and approaches

Constant web presence was surely one of the dissemination approaches that covered the largest group of the target audience. Updates and information on the project activities are available on the CERTAIN web site (<http://certain.fehrl.org>).

CERTAIN project developed contacts with relevant stakeholders through formal and informal channels (national/international workshops, meetings, etc.).

Relevant international events were used for distribution/display of project brochures, posters and other CERTAIN cluster relevant literature. Presentations about different CERTAIN relevant issues were made at several conferences and meetings. Through organisation of international and especially national seminars outcomes of European projects dedicated to NMS issues were presented to large number of end-users.

To overcome the language barrier in the NMS countries, CERTAIN organised national workshops and organised translations of key documents and brochures of cluster projects, such as the Book of abstracts of the Slovenian seminar (right).

CERTAIN training activities were performed through organisation of project management training courses and through the secondment for NMS candidates, which took place in FEHRL offices in Brussels.



## 1.6 Achievements of the project

The project was contracted to produce 14 deliverables, of which D 1.2 *Mid-Term Assessment report* was, with the approval of project officer, abandoned as it would duplicate the Annual progress report, and D 2.1 and D.2.2 were merged into one *First and second year report on national and international workshops* due to postponed start of the workshops.

- D 4.1 Project poster and brochure
- D 4.2 Project web site
- D 1.1 Project Inception report
- D 3.1 Project management training pack
- D 4.3 Report of survey on end-user and project profiling
- D 3.2 Review of first training course
- D 4.4 CERTAIN cluster visual map and related database
- D 3.3 Final report of first training course with recommendations for further ones
- D 2.1 and D.2.2 First and second year report on national and international workshops
- D 2.3 Third year report on national and international workshops
- D 2.4 Final year report on national and international workshops
- D 4.5 Multi-lingual executive summaries of clustered project reports

Some deliverables comprise general project necessities (D4.1, D4.2 and D1.1). A few were intermediary (represented a step to arrive at an end result), while D2.4, D3.3 and D4.4 were the actual final activity reports on certain tasks. Deliverables D4.3 and D4.5 responded to the project special task: survey on end-users and translations of key documents of SPENS and ARCHES projects.



## 1.7 Impact on industry / research sector

One of the main goals of CERTAIN project was to connect research sector with the industry and end-users.

Considering research sector, CERTAIN project mainly focused on NMS and CEEC countries. Until the beginning of CERTAIN project, partners from some NMS countries have taken part in the EU Framework projects on road infrastructure research, but without major responsibilities. CERTAIN organised training courses for leaders of European research projects, in order that partners from *non* EU-15 countries could play much more active role in the future European research activities. These courses were very successful and CERTAIN educated nearly 50 potential future project managers, from which 50 % came from NMS or CEEC countries.

CERTAIN prepared a consistent multi-lingual Internet platform for the projects and manage the common end-users group (road administrations, designers, construction companies, industry etc.). This is now providing an effective link between the road research activities (on European level and wider) and the implementation at local level.

Since language can be a major obstacle for efficient dissemination of European research results in the NMS and CEEC, CERTAIN organised numerous workshops in mother languages to attract higher number of interested end-users and people from the industry that usually do not attend international conferences. For the same reason, some of the key documents of the SPENS and ARCHES projects were translated into mother languages of different NMS (CEEC) countries.

## 1.8 Project web site

<http://certain.fehrl.org/>

## 1.9 Project logo



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## DISSEMINATION AND USE

The aim of CERTAIN project was to facilitate integration of the EU New Member States (NMS) and other Central and Eastern European countries (CEEC) into the established research and development community of the European Union. One of the approaches was to help representatives from these countries to gain knowledge about European projects organization and to provide them with information about current road research, relevant for their needs. Therefore the main results provided by CERTAIN project are dissemination or training related.

### **CERTAIN project web site and Cluster projects web sites:**

Project web site (<http://certain.fehrl.org>) and Cluster projects web sites (e.g. <http://arches.fehrl.org>, <http://spens.fehrl.org>) were established and regularly updated with all new relevant information and documents. This dissemination approach covers the largest group of the target audience. With constant maintenance the users are always up-to-date with information on the project activities.

### **Survey on end-user and project profiling:**

To support the activities of CERTAIN, the survey report was prepared to provide an overview of relevant end-users from NMS, as a reference source to identify within each countries potential interested parties and key stakeholders. This report considered both, the relevant branch offices of international organisations and some of the local key stakeholders within those countries, that would be targeted by CERTAIN's dissemination activities, including the workshops.

More about end-user and project profiling is available in Deliverable 4.3 ([http://certain.fehrl.org/index.php?m=7&mode=download&id\\_file=1663](http://certain.fehrl.org/index.php?m=7&mode=download&id_file=1663)).

### **CERTAIN cluster visual map and related database:**

One of the main issues of CERTAIN projects was to foster and organise clustering and knowledge sharing, support cohesion, promote excellence in CEEC and display links and synergies between projects and stakeholders/end users. That was achieved by developing the FEHRLopedia (<http://www.fehrl.org/index.php?m=192>) and the Project Database (<http://www.fehrl.org/index.php?m=155>).

More about CERTAIN Cluster Visual Map and Related Database is available in Deliverable 4.4 ([http://certain.fehrl.org/index.php?m=7&mode=download&id\\_file=8558](http://certain.fehrl.org/index.php?m=7&mode=download&id_file=8558)).

### **Organisation of European Project Management Training courses:**

CERTAIN organised EPMT courses for aspiring leaders of European research projects, in order that partners from *non* EU-15 countries could play much more active role in the future European research activities. Three organised courses were developing an understanding of processes and techniques for successfully delivering large multi-national research projects. Supported by training material and web-based tools, they gave the future project managers some basic skills, confidence and continued support to develop large multi-national research projects. CERTAIN educated nearly 50 future project managers, from which 50 % came from NMS or CEEC countries.

More about CERTAIN Project Management Training course is available in Deliverable 3.3 ([http://certain.fehrl.org/index.php?m=7&id\\_directory=942](http://certain.fehrl.org/index.php?m=7&id_directory=942)).

**National and international workshops:**

To establish links with national audience in NMS and CEEC countries, CERTAIN organised six workshops in local mother languages dedicated to the road infrastructure research. These workshops were organised to attract higher number of interested end-users and people from the industry that usually do not attend international conferences.

International events were organised as a part of another major international event in the area of transport research (Transport Research Arenas 2008 and 2010) or as a final event for some CERTAIN cluster projects (CERTAIN/NR2C Seminar and ARCHES/SPENS Final Seminar).

More about CERTAIN national and international events is available in Deliverable 2.4 ([http://certain.fehrl.org/index.php?m=7&mode=download&id\\_file=9685](http://certain.fehrl.org/index.php?m=7&mode=download&id_file=9685)).

**Multi-lingual executive summaries of clustered project reports:**

Beside translations of different leaflets and web tools in languages of NMS and CEEC, CERTAIN project organised and published translations of ARCHES and SPENS Summary Reports into relevant languages. The main purpose was to disseminate the project results in the national road research institutes to enlarge the awareness. The SPENS Final Summary report was translated into Hungarian, Polish, Slovenian, Serbian, Czech, and additionally into Ukrainian and Bulgarian ([http://certain.fehrl.org/index.php?m=7&id\\_directory=2003](http://certain.fehrl.org/index.php?m=7&id_directory=2003)). The ARCHES Final Summary Report was translated into Slovenian, Polish, Czech, Bulgarian and Estonian ([http://certain.fehrl.org/index.php?m=7&id\\_directory=2003](http://certain.fehrl.org/index.php?m=7&id_directory=2003)).

**Secondment:**

Secondment programme in the scope of CERTAIN project offered working/learning opportunity in an international environment at the FEHRL office in Brussels. The aim of this program was to familiarise the Secondees from NMS with international project activities and provide them with the opportunity to enhance networking among the FEHRL institutes, the European Commission and other international Organisations. By now FEHRL has developed a “Secondment programme” and is regularly offering the position of secondee in their premises.