

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



CERTAIN

Central European Research in Transport INfrastructure

DELIVERABLE D.2.2

**FIRST AND SECOND YEAR REPORT ON NATIONAL AND
INTERNATIONAL WORKSHOPS**

Project Number: **031457/2006**

Start date of project: **01 June 2006**

Duration: **48 months**

Project coordinator name: **Aleš Žnidarič**

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

	Name and signature	Date
Drafted:	Adewole Adesiyun	31/05/2008
Reviewed:		
Approved by CERTAIN Management Group:		<u>24/06/2008</u>

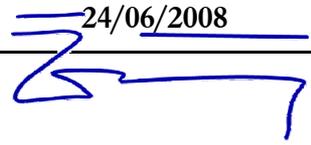


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1. INTRODUCTION

1.1 General background

The CERTAIN coordination action was planned in response to the European Commission call for proposals 3B, addressing topic 2.6 “Design and manufacture of new construction concepts” of objective “Sustainable Surface Transport” under the Thematic priority 1.6 “Sustainable Development, Global change and Ecosystems” of the Growth part of the 6th Framework Programme. The contract was signed by the Commission on the 25th of July 2006. Project commencement was the 1st of June 2006 and the duration of the project is 48 months.

1.2 Project summary

The aim of CERTAIN is 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.

WP 1 will provide the necessary clustering environment for the STREP projects from the same call: SPENS, ARCHE and HeavyRoute, and other relevant on-going projects in which they will work in synergy to provide maximum output for the NMS and CEEC without duplicating their work.

Language is a major obstacle for efficient dissemination of European research results in the NMS and CEEC. Thus, apart from four international events, WP2 will organise six workshops in mother languages to attract much higher number of the interested end-users than usually attend international conferences. For the same reason, it will translate into the mother languages some of the key documents of the three projects.

Until today, partners from some NMS have taken part in the EU Framework projects on road infrastructure research, but without major responsibilities. WP 3 will organise training courses for leaders of European research projects, in order that partners from NMS and CEEC will play a much more active role in the future European research activities.

WP4 will work on dissemination of results. It will prepare a consistent multi-lingual Internet platform for the projects and manage the common end-users group (road administrations, designers, construction companies, industry etc.). This will provide an effective link between the road research activities at the European level and the implementation at local level.

Three partners come from the NMS, the fourth one is FEHRL, the Association of Europe's National Road Research Centres.

2. ORGANISATION OF WORKSHOPS

The aim of the workshops is 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 are:

1. 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.
2. 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.

National workshops will organise regional workshops as parts of appropriate national or regional conferences. The first key criteria for selection of the conference venue will be that these workshops are linked to national events with substantial participation of members of the local road infrastructure community, from designers, builders, managers to politicians. The second key criteria will be that participants understand each other, i.e. that they can communicate with each other in their mother languages.

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.

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 CEEC is substantially lower than in the Western Europe. This creates a barrier and therefore, to improve this situation and to establish links with national audience in these countries, the CA will organise dedicated workshops related to the road infrastructure research. Primarily, this will include presentations of the ARCHES and SPENS, but also other relevant projects. As many conferences in the field of transport exist, the clear intention of CERTAIN is not to duplicate existing efforts but to add special sessions to the existing national events. These will be conducted in mother languages to ensure the greatest possible active participation from local stakeholders.

CERTAIN CA will provide technical and organisation support for all regional workshops and translation of some material related to these workshops. The technical contents of the presentations will be provided by ARCHES and SPENS projects themselves.

CERTAIN workshops at TRA will use the two major international events in the area of transport research, the Transport Research Arena conferences in Ljubljana 2008 and in Brussels 2010, to present the CERTAIN cluster activities to the widest possible audience in the area of road transport. Due to the time constraints, presentations will be likely limited to half-day session for the entire cluster (CA and the STREP projects).

CERTAIN cluster projects' workshops will organise dedicated workshops to present the mid-term and final results of the projects ARCHES and SPENS to the wide professional audience. The mid-term seminars will be organised in year 2007 while the projects' final seminars in 2009.

These international workshops will be crucial in order to get critical feedback from researchers and end-users that have been solving similar problems but are not involved into the current research projects.

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

The list of national and international workshops was produced during the first year (Figure 1) and the first workshop was scheduled for November 2007 (second year of the project).

The decision to start the workshops in the second year of the project was taken because the CERTAIN Cluster projects, ARCHES and SPENS started their activities later than the CERTAIN project itself and more time was needed to get and disseminate results from these projects.

A total of three CERTAIN workshops/sessions were organized in the second year, namely:

- - Polish national workshop
- - CERTAIN/NR2C workshop
- - Workshop at TRA 2008.

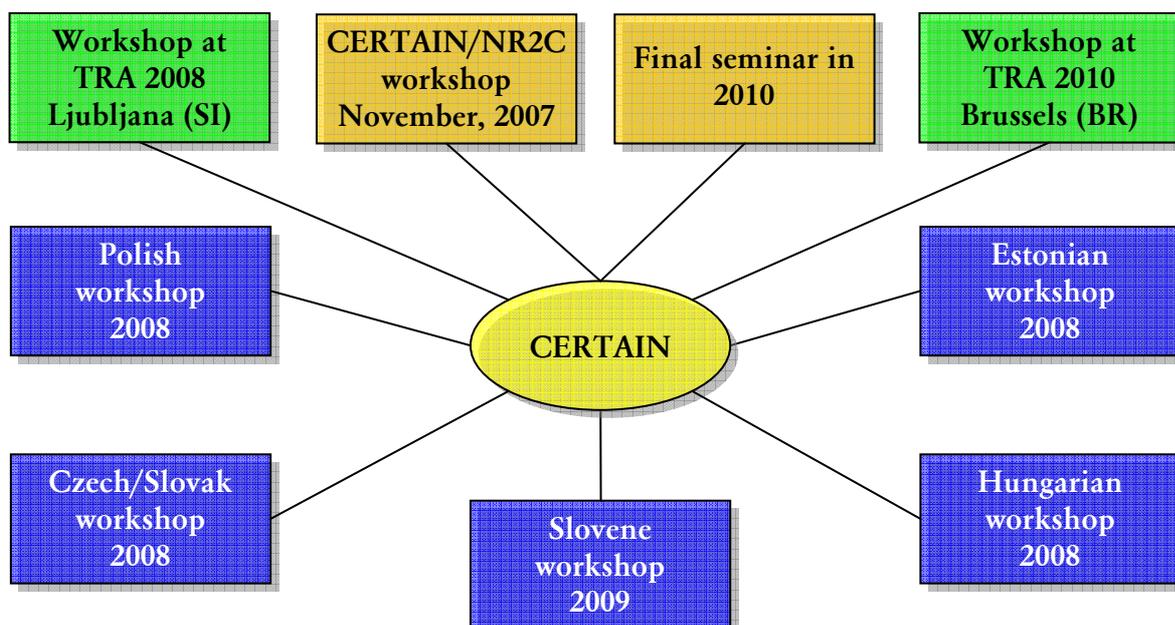


Figure 1. Network of workshops organised by CERTAIN cluster

2.1 Polish Workshop

The Polish workshop was held on Friday, 15th May 2008 in Kielce, Poland. It was linked to the 14th International Fair of Road Construction Industry AUTOSTARDA – POLSKA, an event that attracts hundreds of professionals and experts from the road construction industry. The date of the workshop was carefully chosen to fall in between the period of the International Fair (14 – 16 May).

Preparations for the workshop started in June 2007. The decision to hold it during the International Fair was taken in accordance with the criteria set out in the project for selection of workshop venue i.e. it been linked to a national event that would attract substantial participation of members of the local road infrastructure community, from designers, builders, managers to politicians.

The organising committee of the workshop also had to decide on the title of the workshop. After much deliberation the title “New methods and materials to raise the standard of highway structures” was chosen to reflect the work been done in the STREP projects dedicated to the NMS.

The next important decision the organising committee faced was to invite the right speakers and the topics to be presented. As this particular workshop was dedicated to bridge issues it was decided to invite speakers involved in projects like ARCHES, SAMARIS and NR2C.



Figure 2 Participants of the Polish workshop

2.1.1 Participants

33 people (excluding the speakers) participated at the workshop (appendix 1) of this number 29 were from different public road authorities (General Directorate of Public Roads and Motorways, Voivoidship Road Authorities, County Road Authorities and Civic Road Authorities), 2 from research institutes while the remaining 2 participants did not provide the names of their authorities.

2.1.2 Agenda

The agenda for the Polish workshop is shown in appendix 2.

2.1.3 Presentations

The workshop was opened by Tomasz Wierzbicki, the coordinator of the ARCHES project.

Following the formal greetings and the presentation of the agenda the first presentation was given by Adewole Adesiyun with a brief description of the CERTAIN project. This presentation was followed by Tomasz Wierzbicki's presentation titled "ARCHES - a gaze on Central European highway structures". He concentrated on the scope of the project and its aim to develop ways to raise the standard of the highway structures of NMS and CEEC to the level necessary for their full economic integration into the EU and for the future development of the union. The next presentation titled "New Road Construction Concepts - Vision 2040" was

given by Adewole Adesiyun. The NR2C project was an EC funded project under the 6th Framework Programme with part of the work focused on society's perception of road infrastructure in the year 2040.

The other presentations were given by Piotr Olaszek, Mirosław Biskup, Juliusz Cieśla (all from the Road and Bridge Research Institute, Poland) and Emmanuel Denarié from Ecole Polytechnique Fédérale de Lausanne. The titles of their presentations are as follows:

- Piotr Olaszek - The role of load testing in bridge diagnosis in EU countries
- Mirosław Biskup - Strengthening of bridge structures with FRP glued strips
- Juliusz Cieśla - Load testing as a tool for assessing the state of prestressing in bridge girders
- Emmanuel Denarié - Ultra High Performance Fibre Reinforced Concretes in bridge structures

The presentations given during the workshop are available on the ARCHES website (arches.fehrl.org).

2.2 TRA Workshop

The aim of these workshops at TRA is to present the CERTAIN cluster activities to the widest possible audience in the area of road transport. The activity here started at the TRA 2006 in Goeteborg where a poster presentation of CERTAIN was given. The first CERTAIN cluster session was held on the 22nd of April, 2008 at TRA 2008 in Ljubljana. The session, Specific New Member States and Candidate Countries issues, was one of only nine strategic sessions held during TRA which outlines the importance placed on issues related to NMS. Presentations of the CERTAIN project as well as projects in the CERTAIN cluster (ARCHES, SPENS) were made. Presentations of other relevant activities in this area were also made. These are the TransSLO project which looks into sustainable transport research in Slovenia as well as the research activities and possibilities of CDV – the Czech Transport Research Institute. The agenda of the session is shown in appendix 4.



Figure 3 CERTAIN strategic session at TRA2008



Figure 4 CERTAIN strategic session at TRA2008 – the speakers

2.3 CERTAIN/NR2C Seminar

According to the project's work description two additional international events were planned at which the CERTAIN cluster will present its result in 2007 and 2009. These international workshops are being organised to get critical feedback from researchers and end-users that have been solving similar problems but are not involved into the current research projects. The first workshop took place in Brussels and coincided with the final workshop of the NR2C workshop.

Preparations for the workshop started in May 2007 at a meeting organized in Paris. The aim of this meeting was to find suitable ways of disseminating the CERTAIN cluster projects (ARCHES, SPENS, NR2C, CVIS, HeavyRoute). During this meeting the decision was taken to organise an international event in Brussels coinciding with the end of the NR2C project.

The CERTAIN/NR2C seminar "Innovation in Road Infrastructure" was a two day event from November 15 -16, 2008.

2.3.1 Participants

The event brought together researchers, representatives from the European Commission, end-users, road administrators, journalists etc from different European countries. The list of participants is shown in Appendix 5.



Figure 5 CERTAIN workshop as a part of the joint CERTAIN/NR2C seminar

2.3.2 Agenda

The agenda of the CERTAIN/NR2C seminar is shown in Appendix 6.

2.3.3 Presentations

The first day of the seminar, dedicated to the CERTAIN project, was opened by Steve Phillips, who was the moderator for the morning session. The opening speech was given by Aleš Žnidarič - the coordinator for the CERTAIN project.

The CERTAIN seminar was divided into three sessions. In the plenary sessions three presentations were given. Andrzej Urbanik, from the Road and Bridge Research Institute Poland talked about the role road infrastructure is playing in supporting Europe's development, while Luisa Prista from the EC talked about the opportunities available in the 7th Framework Programme and the support the Commission is rendering for infrastructure research. The last presentation in the plenary session was given by Neil Hawks from TRB and he talked about the Transport Research Board's programme "Strategic Highway Research Programme".

The morning session was dedicated to topics related to bridges, structure monitoring and improvement of structures. Three EC projects were covered - ARCHES, SAMARIS and Heavy-route.

The afternoon session, chaired by Ann Vanelstraete was dedicated to pavements and projects such as SPENS, Tyrosafe, INQUEST, SILVIA, SILENCE, HERMES, COST 354 were covered.

The presentations given during the seminar are available on the FEHRL website (www.fehrl.org).

The second day of the seminar which was also the NR2C project final workshop was devoted to presenting the results of the project as well as the outcome of to projects under the 6th Framework Programme of the EC, namely, INTRO and SAMARIS.

3. CONCLUSIONS AND LESSONS LEARNED

In the aspiration of the European Union in “becoming the most competitive and dynamic knowledge-based economy in the world the most, capable of sustainable economic growth with more and better jobs and greater social cohesion” road infrastructure will play a huge role in making this strategic goal a reality. For many years the perception of road infrastructure in Europe has been of a congested, under funded and unsafe system associated with outdated and dirty industrial practices. Despite this perception, Europe’s road system is probably the feature that can be most tangibly associated with Europe’s aspirations for a cohesive and open society. Moreover, it is roads that are most often associated with Europe in the regions and especially in the New Member States.

The European Commission’s 2001 White Paper on European Transport Policy for 2010 states that “the first challenge in making enlargement a success will be to connect the future Member States to Trans-European Network”. The EC estimates that this would cost around 100 billion € and will require building or upgrading roughly 20 000 km of roads and 30 000 km of rails.

For any New Member States, accession is associated with substantial road building programmes; with new motorways, tunnels and bridges. These have quite literally brought Europe’s people together.

The European Commission is increasingly recognising the importance of road infrastructure within an integrated transport system which is evident in the calls for proposals in the sixth and seventh Framework Programmes. Consequently, the sector has responded with considerable research and innovation; resulting in a greener, safer and smarter infrastructure that has lower costs and greater value for national tax payers.

Nevertheless, substantial effort still needs to be undertaken to reduce the backlog of infrastructure development needed and to properly maintain our existing road system.

The workshops and seminars undertaken at the international level within the CERTAIN project present a substantial contribution to the sector and should be seen as solutions being developed to overcome the many challenges.

On the national level only one workshop has been held so far (in Poland) and though the attendance is very encouraging, the fact that more than 95 % were from the road authorities is a matter of concern. The workshop initially aimed at attracting members of the local road infrastructure community, designers, managers and even politicians. This issue has to be addressed when organising the next national workshops.

On a positive side the idea to link the national workshop in Poland to an already existing event (in this case the 14th International Fair of Road Construction Industry AUTOSTARDA – POLSKA) proved to be a very good one. This turned out to be very beneficial as most of the participants were able to attend both events. This approach helps in saving a lot of resources (time, money etc) and it is a strategy highly recommended for the remaining national workshops.

APPENDICES

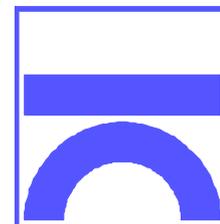
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- Appendix C Photographs of CERTAIN Workshop in Poland
- Appendix D Agenda of CERTAIN session at TRA
- Appendix E List of participants at CERTAIN/NR2C Seminar
- Appendix F Agenda of CERTAIN/NR2C Seminar
- Appendix G Photographs of CERTAIN/NR2C Seminar

Appendix A List of participants of the Polish workshop

NAME	ORGANISATION
BALCEREK Bolesław	Świętokrzyski Zarząd Dróg Wojewódzkich, Kielce
BOREK Tomasz	Miejski Zarząd Dróg, Kielce
BRZOSTEK Bogdan	MZDW Warszawa, Rejon Drogowy Ciechanów
BUKOWSKI Marek	Zarząd Dróg Powiatowych, Kluczbork
BURCZYN Zbigniew	Miejski Zarząd Dróg, Kielce
CIEŚLIK Jacek	Zarząd Dróg Wojewódzkich, Łódź
DRAŻEWSKA Renata	MZDW Warszawa, Rejon Drogowy-Ciechanów
DZIOPA Radosław	Zarząd Dróg Powiatowych, Kluczbork
GAWLAK Ewa	Zarząd Dróg i Transportu, Kraków
GROBORZ Magdalena	Bytom
GURBA Ewa	GDDKiA O/Warszawa, Rejon Siedlce
JAGLIŃSKI Janusz	Powiatowy Zarząd Dróg w Tarnowie z siedzibą w Zgłobicach
JAROSZUK Krzysztof	Zarząd Dróg Powiatowych, Biała Podlaska
JAWORSKI Grzegorz	Zarząd Dróg Powiatowych, Lubartów
KACZMAREK Robert	Zarząd Dróg Wojewódzkich w Łodzi, Rejon Dróg Wojewódzkich w Belchatowie
KEMPKA Maria	Generalna Dyrekcja Dróg Krajowych i Autostrad Oddział w Lublinie
KOBRZYŃSKI Ryszard	MZDW Warszawa, Rejon Drogowy Ostrołęka
KRAJEWSKI Wojciech	Generalna Dyrekcja Dróg Krajowych i Autostrad Oddział w Opolu
KUBIAK Monika	Zarząd Dróg i Transportu, Kraków

NAME	ORGANISATION
KUĆ Krzysztof	GDDKiA O/Warszawa, Rejon Siedlce
MARLICA Marek	MZDW Warszawa, Rejon Drogowy Ostrołęka
NIŻNIKOWSKI Sławomir	Zarząd Dróg Wojewódzkich, Łódź
PAŹIK-TERKIEWICZ Lucyna	Zarząd Dróg Wojewódzkich w Łodzi Rejon Dróg Wojewódzkich w Belchatowie
PODGÓRSKI Tomasz	Generalna Dyrekcja Dróg Krajowych i Autostrad Oddział w Lublinie
SKAWIŃSKI Marian	Instytut Badawczy Dróg i Mostów, Filia Kielce
SKRZYPCZAK Marek	Zarząd Dróg Powiatowych, Lubartów
STOJAK Marek	Zarząd Dróg i Utrzymania Miasta, Wrocław
SUDYKA-KOWALSKA Monika	Instytut Badawczy Dróg i Mostów, Warszawa
SZYMAŃSKI Jerzy	Świętokrzyski Zarząd Dróg Wojewódzkich, Kielce
TOMALA Janusz	Katowice
TRĄBKA Dariusz	Zarząd Dróg Powiatowych, Lubartów
WRÓBEL Jadwiga	Świętokrzyski Zarząd Dróg Wojewódzkich, Kielce
ZAŁUSKI Bronisław	Zarząd Dróg Powiatowych, Jaworzno

Appendix B Agenda of CERTAIN workshop



New methods and materials to raise the standard of highway structures

10.00-10.05 *Greetings. Opening remarks*

Tomasz Wierzbicki

10.05-10.15 *Central European Research in Transport INfrastructure*

Adewole Adesiyun

10.15-10.30 *ARCHES – a gaze on Central European highway structures*

Tomasz Wierzbicki

10.30-11.00 *New Road Construction Concepts - Vision 2040*

Adewole Adesiyun

11.00-11.30 *Strengthening of bridge structures with FRP glued strips*

Mirosław Biskup

11.30-11.55 *The role of load testing in bridge diagnosis in EU countries*

Piotr Olaszek

12.00-12.30 **Coffee break**

12.30-13.00 *Load testing as a tool for assessing the state of prestressing in bridge girders*

Juliusz Cieśla

13.00-13.55 *Ultra High Performance Fibre Reinforced Concretes in bridge structures*

Emmanuel Denarié

14.00 *Lunch*

Appendix C Photographs of CERTAIN Workshop in Poland





Appendix D Agenda of CERTAIN session at TRA

Strategic Session 5.1

Tuesday, April 22, 2008, 11:00 – 12:15

Specific New Member States and Candidate Countries issues

Tomasz Wierzbicki: ARCHES – a gaze on Central European highway structures

Aleš Žnidarič: Central European Research in Road Infrastructure

Mojca Ravnikar Turk: Sustainable Pavements for New Members States

Srečko Janša: TransSlo – Sustainable Transport Research

Appendix E List of participants at CERTAIN/NR2C Seminar

FIRST NAME	LAST NAME	ORGANISATION
Adewole	Adesiyun	IBDIM
Tom	Antonissen	ERF IRF
Joralf	Aurstad	Vegvesen
Evaristé	Barré	LROP
Anne	Beeldens	BRRC
Egbert	Beuving	EAPA
Agnieszka	Bigajvanvliet	TNO
Javier	Bonilla	Acciona
Michel	Boulet	LCPC
Carsten	Bredahl Nielsen	DRI
Sonja	Bruyninckx	EUPAVE
Nicolas	Bueche	EPFL LAVOC
Raquel	Cabral	UCD
Jorgen	Christensen	DRI
Jean Pierre	Christory	LROP
Xavier	Cocu	BRRC
Albert	Daly	NRA
Claude	De Backer	BRRC
Vincent	De Ville	Bureau d'Etudes GREISCH
Stefan	Deix	Arsenal Research
John	Demicoli	Malta Transport Authority
Emmanuel	Denarié	EPFL
Guy	Descornet	BRRC
Laure	Dezes	European Union Road Fed
Jean	Dumoulin	LCPC
Michel	Egger	CEDR
Sandro	Francesconi	European Commission
Morten	Friis Jorgensen	MFJ Media/Nynas
Laslo	Gaspar	KTI
Frédéric	Gens	Bureau d'Etudes GREISCH
Bruno	Godart	LCPC
Thierry	Goger	EC - COST
Neil	Hawks	SHREP
Jos	Heerkens	Heijmans Infra
Anders	Henrichsen	DBT Engineering A/S
Wiktor	Jasinski	IBDIM
Björn	Kalman	VTI
Darko	Kokot	ZAG

FIRST NAME	LAST NAME	ORGANISATION
Martijn	Koster	Ministry of transport NL
Monika	Kowalska-Sudyka	IBDIM
John H.	Kristiansen	Road Directorate
Bojan	Leben	ZAG
Andraz	Legat	ZAG
Christine	Leroy	USIRF
Christophe	Lesniak	European Commission
Ida	Lofsgaard Kojedahl	Vegvesen
Yvon	Loyaerts	Ministère wallon équipement
Marcello	Luminari	Autostrade
Brigitte	Mahut	LCPC
Cristina	Marolda	European Commission
David	Miet	LROP
X	Molenschot	Den Haag
Sue	Murphy	UCD
Milo	Nico	Mibilliteitsraad Vlaanderen
Lidia	Pardi	Autostrade
Andreas	Pesch	Bilfinger Berger
Steve	Phillips	FEHRL
Luisa	Prista	European Commission
Mojca	Ravnikar Turk	ZAG
Luc	Rens	FEBELCEM
Pierre	Rossi	LCPC
Pierre	Schmitz	Ministère Région de Bruxelles
Leif	Sjögren	VTI
Darius	Sybilski	IBDIM
Finn	Thogersen	DRI
François	Toutlemonde	LCPC
Andras	Ujj	ERTICO
Andrzej	Urbanik	IBDIM
Claude	Van Rooten	BRRC
Ann	Vanelstraete	BRRC
Frederik	Vervaecke	BRRC
Tomasz	Wierzbicki	IBDIM
Richard	Woodward	TRL
Robert	Zerafa	Malta Transport Authority
Aleš	Žnidarič	ZAG

Appendix F Agenda of CERTAIN/NR2C Seminar



CERTAIN SEMINAR
Brussels, Thursday 15th November 2007
Venue: Musée de la bande dessinée – rue des Sables 20 – 1000 Bruxelles

09:00	<i>Registration</i>	<i>Morning moderator :</i> Steve Phillips FEHRL
09:30	Opening and welcome speech by the CERTAIN coordinator	Aleš Žnidarič – ZAG
09:40	Road infrastructure supporting Europe's development	Andrzej Urbanik – Road and Bridge Research Institute Poland
09:55	EC support for infrastructure research and its contribution to an integrated transport system	Luisa Prista – EC
10:15	TRB – SHRP	Neil Hawks - TRB
	Bridges	
10:35	ARCHES – scope of the work	Tomasz Wierzbicki – IBDIM
10:45	Innovation in Civil Engineering Structures	Jean Marc Tanis – EGIS
11:05	<i>Coffee break</i>	
	Structure monitoring	
11:30	Bridge assessment	Joan Ramon Casas – UPC
11:50	Monitoring as an Aid to Bridge Management	Richard Woodward – TRL
12:10	Corrosion prevention	Andraž Legat – ZAG
	Improvement of structures	
12:30	Towards more efficient structures with UHPFRC-Concrete construction	Emmanuel Denarié – EPFL
12:50	Heavyroute project bridges & pavement issues	Stefan Deix – Arsenal Research
13:10	<i>Lunch</i>	<i>Afternoon moderator :</i> Ann Vanelstraete – BRRC

Pavement

14:30	SPENS – scope of the work	Mojca Ravnikar Turk - ZAG
14:40	Skid resistance: Tyrosafe and Hermes	Stefan Deix – Arsenal research
15:00	Pavement underlayers with a high percentage of re-used materials	Nicolas Bueche – EPFL
15:20	Air purification by road materials	Anne Beeldens – BRRC
15:40	<i>Coffee break</i>	
16:15	Improved driver vision based on infra-red vision	Jean Dumoulin – LCPC
16:35	Road noise classification – INQUEST – SILVIA - SILENCE	Guy Descornet – BRRC
16:55	ELLPAG, FORMAT, COST354	László Gaspár – KTI
17:15	Closing words	Cristina Marolda – EC



CERTAIN, ARCHES & SPENS are supported by funding under the Sixth Research Framework Programme of the European Union.



Appendix G Photographs of CERTAIN/NR2C Seminar



