

## CERTAIN Project

CERTAIN is a Coordination Action funded by the Directorate-General for Research under its Sustainable Surface Transport priority. Its aim 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.

## Project Coordinator

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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 add new content and rate existing content according to the usefulness of the links.

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project	area of interest	user type	language	rating	viewed	date
HERMES final report				4.67	878	10.12.2009
HERMES - "Harmonization of European Routine and research Measuring Equipment for Skid Resistance" was a FEHRL-funded pre-normative project that aimed to lay the foundations for consistent European standardization of skid resistance measurement on roads and runways. Underlying the work was the idea that the project should give the initial impetus to the implementation of a common scale of friction, the so-called EPI (European Friction Index), together with an associated nomenclature. [more]						
SILENCE Report of promising new road surfaces				4	740	02.11.2009
This part of the SILENCE project considers the integral design and maintenance of lower noise road surfaces in urban areas. Particular attention is given to surfacing technologies that are appropriate for use in congested streets containing road features such as inspection grooves or rumble strips. Frequent interventions due to sub-surface street works. Also new surface types will be developed for use on roads for medium to high speed traffic with speeds of 80 to 100 km/h, which are typical for dr. [more]						
Guidance for the optimal assessment of highway structures				4.67	685	29.01.2009
This Guidance for the optimal assessment of highway structures was prepared by the Work Package 15 of the SAMARIS project with the objective to give some indications on how to improve procedures used for assessment of highway structures, especially bridges. Apart from the overview on condition assessment procedures used in different European countries, the major focus of the report is on the chapter on structural safety assessment where the most important results of the research are presented. [more]						
New Road Construction Concepts - Final Report				4.75	590	06.05.2009
The NRDC 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. NRDC has developed long-term perspectives, concrete pilot projects and research recommendations, looking 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 NRDC's aim to ide. [more]						
Road Infrastructure: The Evolution of Transport System				3.75	587	10.08.2009
The DG Research study was published for TRA2008. In this publication, the strategies and objectives from FP5, through FP6 to FP7 are reviewed. Looking at the projects related to road infrastructure, the report presents the evolution of the importance of the infrastructure themes throughout the programmes. [more]						
CCST 346 - Procedures Required for the Assessment of Highway Structures				4.67	548	29.01.2009
Because there has been no substantial effort to develop common standards for the maintenance of highway structures, CCST Action 346 was undertaken to describe current European practice on the inspection, assessment, maintenance and repair of the stock of in-service highway structures. Information on the stock of highway structures and current expenditure levels was obtained and requirements for future work were defined. A reliable, integrated system of inspection, assessment and maintenance is r. [more]						
State of the art report on assessment of structures in selected SEE and CE countries				3.5	527	29.01.2009
This report gives an overview of situation on structural, mainly bridge assessment techniques in different European countries. It covers four technical chapters: a) Survey of the questionnaire, b) Condition Assessment, c) Loading, and d) Structural Safety. Chapter on the survey of questionnaire summarizes answers from six countries, four of which were the New Member States (Czech Republic, Hungary, Poland and Slovenia). Chapters of the report summarise information on road system, bridges, and. [more]						
Final report for the ICT for Green & Efficient Mobility Working Group				0	492	29.01.2009
This report presents a review of the wide range of Green ITS already available or under development that can have a significant impact on road transport energy efficiency and emissions of pollutants and CO2. It is a summary of the results of Working Group meetings and other inputs from the Working Group members. [more]						
UK Low Carbon Transport Innovation Strategy				5	527	02.11.2009
The LCTIS, which is being published at the same time as the UK Government's Energy White Paper, sets out an overall framework through which the UK will encourage innovation and technology development in lower carbon transport technologies. It also contains specific chapters on the road, aviation, rail and maritime sectors - setting out in detail the technologies that can contribute to lower carbon transport and the steps the Government is taking to encourage them. [more]						
Intelligent monitoring of pedestrian structures: the results of a preliminary study				0	487	16.12.2008
In the TRC study, a steel beam, instrumented with deflection gauges, strain gauges and two acoustic monitoring systems, was subjected to a series of load cycles. The aim of the test programme was to determine whether acoustic emission (AE) techniques could be used to form the basis of an intelligent monitoring system. The results support the view that AE was generated by a load-related mechanism - most likely due to micro-cracking of the steel iron - and as AE techniques might indeed form th. [more]						



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# FEHRLopedia Manual



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## INTRODUCTION

The **FEHRLopedia** has been designed as a portal to road infrastructure knowledge. It is a referencing system for technical reports as well as a library, for literature reviews, final reports, etc.

The system links relevant contents from numerous reputable sites on the internet or research reports. Users can search for information with different selection criteria; including project type, target end user, and technical scope. Users can also add new content and rate existing content according to the usefulness of the links.

The FEHRLopedia platform provides a common place to search for knowledge on road research:

- Using existing information/databases
- With feedback from the users
- The dissemination and exploitation of results of clustered projects in English and other national languages
- Aimed at stakeholders, researchers, industry, infrastructure owners and maintainers, and end-users.



## SEARCHING FOR CONTENT

### » The Selection

The user can run their search by type of project (FP7, national, etc.), the field of interest (safety, environment, etc), the user type (road authorities, laboratories, etc), by language, and/or free text in the search tab.

For each selected report, an initial view of the report summary, the evaluation, the number of visit, and the date the report was uploaded, may be seen.

### » The Selected Report

The user will be directed to the full page of the report containing the content name, the full summary of the report, the report url link, the language of the report, the rating and the users' comments if any, the full area of interests and end users type of the project, and a selection of other similar report.

### » Related Content Similarity

To provide and share even more knowledge, a system of similarity percentage to encourage users to consult other reports was implemented.

For each content, there are several reports that are related or similar to it. Each piece of content is connected to three types of attributes: project, area of interest and user type. With accurate descriptions of the content, the algorithm can display accurate similar content results.

## ENTERING NEW CONTENT

### » Where

On the FEHRLopedia home page, the creator has to click on the tab "suggest new content".

### » Filling in the Content

The submitter of the new content needs to fill in the content's name, description, url, a comment to the administrator explaining why the report is relevant for the database, the initial language of the report and the availability of an English summary. After submitting the content, it will be sent for approval.

## MULTILINGUAL INTERFACE

### » On the CERTAIN Website

To encourage more efficient incorporation of partners from NMS and CEEC in future European Research, translation of some web pages are being developed.

