



7<sup>TH</sup> FRAMEWORK PROGRAMME  
COLLABORATIVE PROJECT  
THEME: ENERGY, ENVIRONMENT &  
RESOURCES  
STARTING DATE: 1 JANUARY 2009  
DURATION: 48 MONTHS  
BUDGET: 3.2M EUR

## PARTNERS



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Improving Asphalt Recycling

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## IMPROVING ASPHALT RECYCLING

The Re-Road project is a collaborative project funded by the European Commission under the Seventh Framework Programme (FP7/2007-2013).

Re-Road aims at developing knowledge and innovative technologies for enhanced end-of-life strategies, supporting asphalt road infrastructures. Such a strategy has an important impact on the energy efficiency and the environmental footprint of the European transport system, fitting within the life-cycle thinking that is being introduced in waste policy at a European level. It will lead to the reduction in the need for new raw materials in road infrastructure, reduce waste, the use of landfills, and consequently minimise the need to transport materials to and from work sites. It will further reduce energy pollution, including CO<sub>2</sub>-emissions.



The project covers the following issues of reclaimed asphalt:

### DISMANTLING STRATEGIES

The impact and potentially adverse effects of different dismantling procedures on the quality of reclaimed asphalt will be investigated.

### CHARACTERISATION STRATEGIES

Improving characterization of reclaimed asphalt and technical evaluation of reclaimed asphalt as a raw material considering the heterogeneity of the material and the specific industrial process for producing the asphalt mix.

### HANDLING STRATEGIES

Optimising the process to achieve the highest possible level of quality. Ensuring environmentally sound use of reclaimed asphalt and disposal of materials that cannot be recycled.

### ENVIRONMENTAL CRITERIA

Assessment of risks and benefits to the environment with the use of reclaimed asphalt will be developed. Special attention will be paid to potential harmful substances (e.g. tar-containing asphalt). Life cycle analysis (LCA) will be used as a tool for this assessment.



### COST-EFFECTIVE RECYCLING

Short and long-term performance, as well as lifetime prediction by modelling of asphalt mixes produced with different levels of reclaimed asphalt and production techniques.

### INDUSTRIAL PROCESSES

Study of the effect on the final asphalt mix quality derived from the specific method for introducing reclaimed asphalt in the mixing plant. Avoiding the problems when recycling polymer modified reclaimed asphalt and how to take full advantage of their special qualities.

