

WEB BASED PROJECT MANAGEMENT SYSTEM FOR THE SAFETY AND ENVIRONMENTAL INTEGRAL MANAGEMENT IN SMES' PRODUCTIVE PROCESSES OF THE CONSTRUCTION SECTOR (2005-2008)

OBJECTIVES

To improve the competitiveness of the construction industry through the continuous optimization of different management systems resources, using Information and Communication Technologies (ICT).

- Development of a methodology for the environmental impacts and health and safety risks integrated management along all the life cycle of a construction project, to facilitate the decision-making.
- Incorporation into the methodology of a predictive model used in the study /planning phase, of the environmental impacts and health and safety risks that occur during the execution phase.
- Incorporation into the methodology of the procedures necessary to improve environmental conditions and health and safety on construction works.
- Development of an implementation model / tool and a collaborative environment Computer-Supported Cooperative Work (CSCW) specific for SMEs of the construction industry to analyze integrally the environmental impacts and safety and health risks throughout the life cycle of a construction project.

RESULTS

- Development of a model to analyze environmental impacts and health and safety risks through all the life cycle of a construction project.
- Development of a methodology to predicting, control and manage environmental impacts and safety and health risks at the design, planning and preparation phase of the construction project.
- Development of indicators to monitor the environmental aspects and health and safety risks associated with the construction process during the execution phase.
- Integrate the model in an Integrated Management and information system for the SMEs of the construction sector.

CONSORTIUM

Technical University of Catalonia / Group of Construction Research and Innovation (GRIC).

MORE INFORMATION

<http://www.gric.upc.edu>

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