

Sustainable Construction WG

Project: Technical Assistant for sustainable construction (ATECOS)

Year 2011

During 2011 our Working Group on Sustainable Construction will launch the web platform ATECOS (www.atecos.es), **first tool** of free access, addressed to all the professionals of building and urbanism sector, which offers information and training in a **practical and integrated** way about how approaching projects of new construction and rehabilitation along all the life cycle of the building.

The first phase of the Project will address the development of the energy module, able to be completed in the future depending on the informative demand with modules on water, materials, noise, etc.

ATECOS will be designed to add value to the **entire value chain of building sector** (both public and private): architects, technicians, engineers, builders, installers, maintainers of plants, promoters, real states, public servants with responsibilities in the matter, managers of energy, etc.

This tool will consist of a web application based on the concept of *Experts Search Systems* with three key elements:

- **Data base of knowledge:** fed by participatory tools and monitored by an expert panel, will contain all the current normative, the best available techniques, grants, main technical references and the most important commercial offer in the market.
- **Search engine:** it will allow to the registered user exploit the information of the platform according to his need.
- **Site administrator:** allowing monitoring the reception, control and actualization of contents and users.

Main features of this tool:

- Accessibility via internet.
- Housed in a dynamic technological environment, secure and scalable.
- Indexed to the major search motors.

Asistente Técnico para la Construcción Sostenible



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Technical description of the tool ATECOS:

Knowledge database

The architecture of the database is organized around the five stages of a life cycling of a building (planning, design, construction, operation and maintenance, and demolition) to be crossed with the different modular content (energy, waste, water, noise, etc.).

The information is distributed in five big sections: legislation, solutions, products and services, grants and the main technical references.

Search engine

A key to the success of this ATECOS tool is the defined search criteria that will serve to track the content of database.

The browser developed, based on expert systems, allows to access to the contents via a simple navigation scheme but powerful.

Site administrator

The entire platform will be managed comprehensively, fostering the interrelationship between content and the users of the site.

In terms of content, this platform will update the information in the database and manage the delivery of alerts and news via a newsletter.

To users control, we will have two managers in function of if they are users registered or not, or if they belong to the panel of experts.

It is designed with the aim not only to facilitate the updating of content, but to encourage interaction between users and experts through networks to exchange experiences, concerns and knowledge.

Working team:

- Fundacion Entorno-BCSD Spain: General coordinator of the project.
- Foundation of the Universidad Autonoma of Madrid: Site administrator and management of expert panel.
- Miliarium.com: Software development, maintenance and user support and contribution of content.

Contact for participation:

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About Sustainable Construction WG

It is a multi-stakeholder platform sharing a holistic view of construction with the aim of establishing a framework of action that defines the conditions for sustainability in the sector.

Participants: ACCIONA, CEMEX, DAIKIN, ENDESA, SOCIEDAD FINANCIERA Y MINERA, GAS NATURAL FENOSA, HOLCIM, LAFARGE, OHL, ROCKWOOL, y SOLVAY.

