



Co-funded by the
Erasmus+ Programme
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SMART REHABILITATION 3.0

INNOVATING PROFESSIONAL SKILLS
IN THE EXISTING BUILDING SECTOR

BUILDING REHABILITATION EXPERTS

SUPPORT TOOLS



smart-rehabilitation.eu

Smart Rehabilitation 3.0

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<https://smart-rehabilitation.eu/>

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The **Smart Rehabilitation 3.0** Project, co-financed by the Erasmus+ Programme, was presented with a double objective: to reflect from European universities and from the building sector on the professional profile required as a “Building Rehabilitation Expert” and that would respond to European requirements in all EU member countries; and to develop various tools, both for the training of these experts and to support them in their usual professional activity, in order to promote interventions to improve the structural, energy and comfort performance of the building stock.

Project's Results

Definition of the Building Rehabilitation Expert

In order to meet the challenges of urban regeneration today, it is necessary to have a professional who is able to diagnose the needs of buildings and, on the basis of the results, draw up renovation projects. This professional must be aware of traditional techniques and be prepared to introduce the most innovative techniques and new materials available on the market.

This specialised training requires a balance between the technological component, related to the world of engineering, and the artistic component, related to architecture, aesthetics and heritage values. To this end, a balanced curriculum has been developed and agreed upon at European level.

https://smart-rehabilitation.eu/media/smart_rehabilitation_io1_building_rehabilitation_expert.pdf

Specialised training in MOOC format

Massive Online Open Online Courses (MOOCs) are training proposals available on networks, free of charge and accessible to any participant from anywhere in the world. As a tool for the acquisition of professional competences, the SMART Rehabilitation 3.0 Project has developed four courses, each one led by one of the 4 participating Universities, on different topics but always related to the training needs shown by the definition of the professional profile of the Rehabilitation Expert.

The courses, aimed at technicians and professionals with an expected dedication of between 20 and 30 hours, are open on the Institutional Platform: [MOOC UPC](#), of the [Universitat Politècnica de Catalunya. Barcelona Tech](#):

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KAUNO TECHNOLOGIJS UNIVERSITETATS

Wooden built heritage as a renewable resource for local development. KTU

Miscellaneous

Wooden Built Heritage as a Renewable Resource for Local Development

A course offering a comprehensive analysis of the renewal of wooden heritage (both in terms of value and technology), combining heritage protection requirements with current regulatory requirements and technological possibilities.

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UNIVERSITY OF CYPRUS

Conservation and environmental sustainability of vernacular architecture. UCY

Miscellaneous

Conservation and Environmental Sustainability of Vernacular Architecture

This course is aimed primarily to scholars and professionals, in order to provide an introduction to the environmental features and strategies of vernacular architecture encountered in both urban and building scale.

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UNIVERSITÀ DEGLI STUDI DI PALERMO

Approaches, techniques and interventions for the rehabilitation/restoration of architectural heritage. UNIPA

Miscellaneous

Approaches, Techniques and Interventions for the Rehabilitation and Restoration of Architectural Heritage

This course is based on an academic approach to solve different technical problems that may arise in the rehabilitation/restoration of the traditional architectural heritage.

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UNIVERSITAT POLITÈCNICA DE CATALUNYA

Accompanied Self-Renovation. Habitability And Safety Conditions Improvement. UPC

Miscellaneous

Accompanied Self-Renovation, Habitability and Safety Conditions Improvement

A course that aims to provide useful tools (techniques and successful interventions) for an “accompanied self-renovation”.

Digital Library

The Digital Library is a repository where teachers, students and professional experts can directly and freely access multiple information and files on rehabilitation and restoration. It is an open-source network for information distribution, built with the involvement and contributions of specialised experts and companies working in rehabilitation.

The Digital Library is organized into two different databases collecting information relating to:

Technological Innovations for Rehabilitation (Database 1)

A database containing information on innovative building materials and techniques applicable to renovation, currently with more than 100 files organised on the basis of a methodological index.



1.- FOUNDATIONS AND UNDERGROUND STRUCTURES



2.- VERTICAL STRUCTURES



3.- HORIZONTAL STRUCTURES AND VERTICAL CONNECTIONS



4.- ROOF AND TERRACES



5.- FAÇADE AND BUILDING ENVELOPE



6.- FINISHES AND COMPLETION ELEMENTS

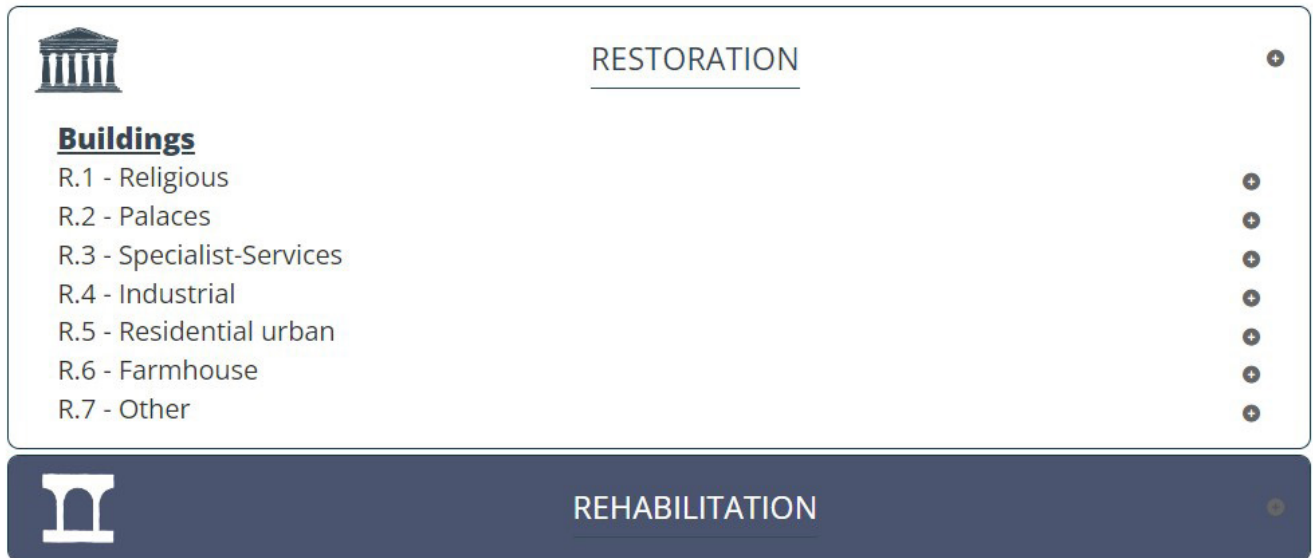


7.- INTEGRATED SERVICES



8.- GENERAL STRATEGIES FOR BUILDING RECOVERY





This database collects case studies of interventions that have already been carried out and in which special attention is paid to the original design and the innovative architectural intervention that has been incorporated.

With more than 40 project files carried out in Europe, the interventions range from rehabilitations of small buildings in the historic centres of large cities to actions in rural areas with a special focus on traditional and vernacular architecture. But it also includes major restoration interventions in the valuable architectural heritage preserved in Europe and innovations that respond to housing needs, all in line with the Sustainable Development Goals.

RehabiMed



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