



## Thematic Actions

### Coordinating Universities for the Proposal: UCM and UPM

<b>Title of Action</b>	<b>Science and Technology of Heritage Conservation Laboratory Network RedLabPat</b>		
<b>Participating partners</b>	UCM, UPM, CSIC, CIEMAT, UCM-CSIC	<b>Other participants</b>	IGME, INIA, IPCE
<b>Personnel involved (indicate institution)</b>	UCM-CSIC (IGEO), UCM (Faculties of Geology, Physics, Chemistry, Geography and History, Fine Arts, CAI: Archaeometry and Archaeological Analysis, Technical Physics). UPM (Schools of Architecture, Civil Engineering), CIEMAT		
<b>Start date</b>	2010	<b>End date</b>	2013
<b>Cluster</b>	Heritage	<b>Other clusters</b>	
<b>Areas of action</b>	Teaching Improvement and EHEA Deployment / Research / Knowledge Transfer		
<b>Location</b>	Virtual Net		
<b>Infrastructures involved</b>	Laboratory for Geochronology applied to heritage dating		
<b>Keywords</b>	Architectural, cultural, palaeontological and geological heritage		
<b>Objectives:</b>	To create a laboratory network specializing in the Science and Technology of Heritage to allow sharing and distribution of resources for the specialized technological and multidisciplinary approach to heritage conservation.		
<b>Description of the action:</b>	The laboratory network will allow the integration of laboratories already working individually to share resources with UCM, UPM, and other participating institutions. This will reduce costs and improve the overall action scope in the research areas of the institutions on campus. The focus will be on improving quality and competitiveness on a national and international level. The aim is to define analytical protocols and intervention methodology. Issues of interest in this action are the improvement of existing conservation techniques, the recovery of traditional conservation techniques and the development of new conservation techniques.		
<b>Planned key results:</b>	Increase competitiveness of all the groups involved and acquire equipment to allow national positioning in the heritage field and future international positioning. This infrastructure will offer services to other areas such as environment, climate change, palaeoclimatology.		
<b>Rationale for the action:</b>	It is essential to integrate resources in a multi-centre, with a defined shared space, focusing on increasing the quality of actions in architectural, cultural and geological heritage and to establish action protocols focused on developing specific tests using non-destructive techniques. These action protocols are currently lacking, nationally and internationally and establishing them will allow significant advances in the normal activity of the laboratories, introducing quality management processes.		
<b>International aspects:</b>	It is hoped that the integration of specialized laboratories in Science and Technology of Heritage on the Moncloa Campus will lead to increased international collaboration. To achieve this, different dating techniques (OSL, TL, radiocarbon, AM, dendrology, palaeomagnetism, etc.), must be introduced to allow integrated action and to become an international reference point within the planned timeframe.		



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<b>Planned impact:</b> Increased scientific production and international collaboration in the field of Heritage science, providing support for problem solving in conservation and protection of architectural, cultural and geological heritage. The direct beneficiaries will be the institutions themselves , with improved quality and lower costs resulting from shared resources, and overall, their improved service to national and international research and production. The improved quality of their actions, leading to an overall improvement of the Heritage environment, will improve quality of life and generate a higher social evaluation of these resources, boosting the economy through cultural and geo-tourism.	