



Institute for Archaeological and Monumental Heritage
of the National Research Council
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The Institute for Archaeological and Monumental Heritage of the National Research Council (IBAM-CNR), having its headquarters in Southern Italy (Catania, Lecce, Potenza, Rome), is an **interdisciplinary scientific centre with high expertise and specialized skills** concerning the study of technologies used for:

- Managing cultural information systems;
- Cataloguing methods for the study of tangible and intangible archaeological heritage;
- Developing embedded laboratories on bio archaeology, archaeometry and communication;
- Using the latest information technologies employed for 3D reconstructions, augmented reality and web dissemination.

IBAM has more than 70 researchers, 18 technical experts and 17 staff people. The long-term aim of IBAM is to **share scientific data and disseminate** in a more effective way the understanding of monuments and archaeological contexts in national and International countries (i.e. Peru, China and Turkey)

The **main research activities** of the Institute are focused on 4 macro-areas:

- Settlements, territory, landscapes
- Material Culture and society
- Technologies and tools for the diagnosis and conservation of Cultural Heritage
- Technologies and tools for the understanding and communication of CH

Main IBAM Laboratories:

- Ancient Topography, Archaeology and Remote Sensing
- Geophysics and Non-destructive analysis
- Applied Technologies- ITLab
- On-site investigation of built environment
- Simulation of degradation
- Optical, electronic and mineralogical Microscopy

Main IBAM Facilities and ICT results

Equipment for seismic tomography (sonic and ultrasonic); drone Highone 4HSE; phase shift based laser scanner, low-cost microclimate monitoring system.

<https://www.youtube.com/watch?v=KBy-SRxzRus>

IBAM's approach and main projects

The long-term goal of IBAM has been the implementation of a new strategy for international cooperation able to increase research quality and innovation in the field of Cultural Heritage and its related sectors: **tourism, environment and employment.**

| Project name | Years | Theme | Funding | Budget |
|--|------------|--------------------|-------------------------------|-----------|
| Dicet-Living Lab of Culture and Technology | 2012-2015 | Smart Cities | Italian Ministry of Education | 1,5 Mln € |
| Innovation in Culture, Tourism and Restoration | 2012 -2015 | Social Innovation | Italian Ministry of Education | 778k € |
| PRO-CULT | 2011 | Protection CH | PO-FESR | 325k € |
| Science&Technology Digital Library | 2012 | Digital Humanities | National Funds | 365k € |
| CIEnTech | 2014 | Energy Efficiency | PO-FESR | 66k € |

IBAM and the MED Programme

With regards to the MED Programme, IBAM aims at giving its contribution in **modules 1, 2 and 3** with priority to the following axis: **Axis 1, S.O. 1** (innovative clusters and networks), **Axis 3, S.O. 3.1** (sustainable tourism) and **Axis 3, S.O. 3.2** (maintain biodiversity and natural ecosystems).