

The HERITAGE-LAB: the origin and the evolution

The presentation will provide an overview of the expertise developed by HERITAGE-LAB over the years, illustrating its structure, available instrumentation, and main research activities devoted to the study, conservation, and enhancement of cultural heritage.

Several significant case studies will be presented, with particular attention to the methodologies used and the results achieved. The main topics will include archaeometric studies aimed at characterizing materials, understanding production techniques, and analyzing degradation processes.

Another key area will focus on the development and application of innovative nanotechnologies for conservation and restoration, together with the assessment of the impact of climate change on cultural heritage and the identification of prevention and mitigation strategies.

The presentation will also highlight the strong connection between research and training through the involvement of students, PhD candidates, and young conservation scientists in the Laboratory's activities.

Finally, attention will be given to national and international collaborations, which are essential for sharing expertise, developing joint projects, and building interdisciplinary scientific networks.