

The Archaeology of Architecture investigation team of the University of the Basque Country can be found in the University Institutes Building located in the west wing of Aulario de las Nieves building in Vitoria-Gasteiz.

Laboratory for Geometrical Documentation of Heritage (UPV-EHU)



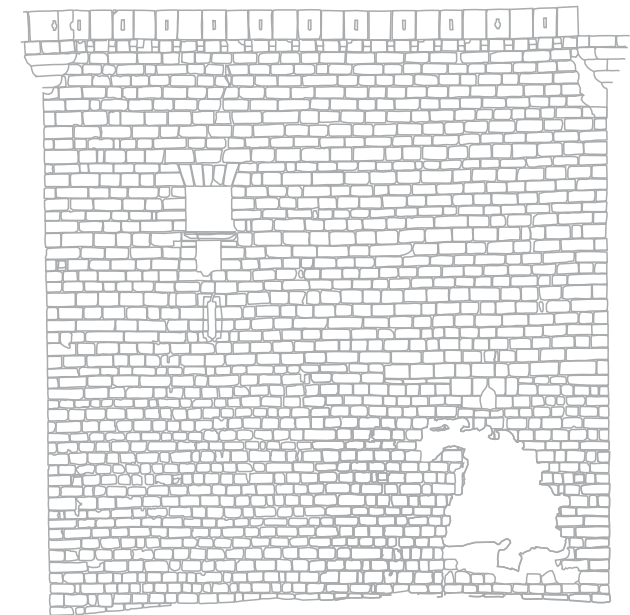
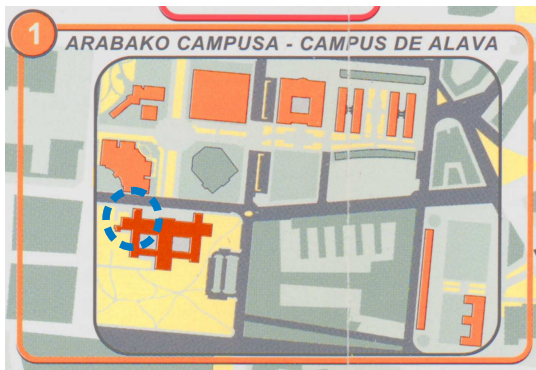
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LABORATORY FOR GEOMETRICAL DOCUMENTATION OF HERITAGE Archeology of Architecture investigation team (UPV-EHU)

The Archaeology of Architecture investigation team of the University of the Basque Country (UPV-EHU) is a multidisciplinary group of technicians and professionals who work in the field of documenting and interpreting historic-artistic heritage. Two sections form the team: One devoted to archaeological and historical studies and another in charge of metrical and graphical information; this last one is given the name of Laboratory for Geometrical Documentation of Heritage.

VISION: "The Laboratory for Geometrical Documentation of Heritage will engage in the investigation and development of all kind of projects that put geometrical measuring to the service of Heritage, ensuring that the highest quality in the processes and the products is reached and that the results obtained are published; fostering the awareness about the importance of heritage, its documentation, management and diffusion".

MISSION: "Defining of each of the stages of the projects, determining the methodology to be used in every case, including the technical up-dating needed to carry them out, optimizing the use of all resources available: Stereoplotters, field-work tools, computers and space".



MARTIARTU TOWER (Erandio, Bizkaia)
Photogrammetric stereoplotting and photograph rectification



UNIVERSITY RETABLE (Oñati, Gipuzkoa)
Photogrammetric stereoplotting



SANTA MARÍA CATHEDRAL (Vitoria-Gasteiz, Álava)
Photogrammetric stereoplotted, mesh modeled and
photograph textured



LANOS CASTLE (Ocio, Álava)
Mesh modeled and textured using rectified photographs

LABORATORY FOR GEOMETRICAL DOCUMENTATION OF HERITAGE

The laboratory has been carrying out its work since 1997. It has taken part in a great amount of projects of high interest due as much to the historical value of the documented elements as to the techniques used in developing the projects themselves.

Stretching through a wide time scope from Prehistoric, Celtiberian, Roman and Mediaeval to nowadays.

Hermits, churches, towers, castles, archaeological sites, bridges or religious images and other kind of elements such as snow wells or a carved roma slab (tabula ansata) have been the object of our work.

The techniques chosen depend to a great extent on a detailed planification of each work, which defines the methodology and tools to be used taking into account the aim of the documentation.

One of the main lines of work of the laboratory has always been the establishment and testing of new working methods. Other investigation lines now open are the research on virtual models the control of building stability and deformation degree and finally the development of specific instruments and auxiliary item to register information.

Our web site, seminars and scientific articles both in the cartographic, historical or restoration fields give an up-dated account of our new results. Some of the software developed is also available for free use of those interested.

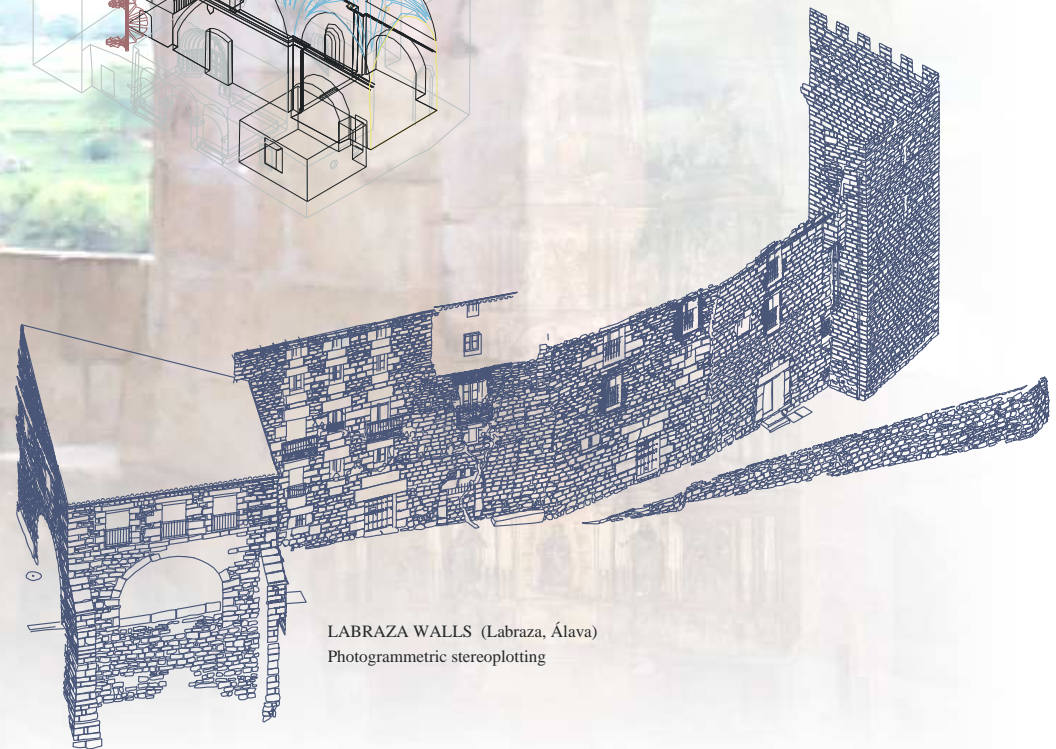
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CALVARY (Brñas, La Rioja)
Virtual model with rectified pictures



SANTA EULALIA CHURCH (Gámiz, Álava)
Volumetric model



LABRAZA WALLS (Labraza, Álava)
Photogrammetric stereoplotting