

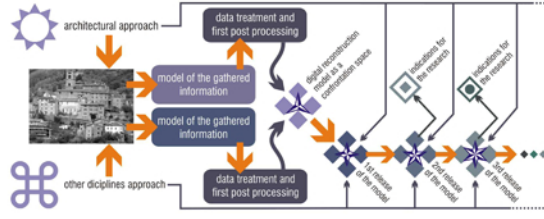
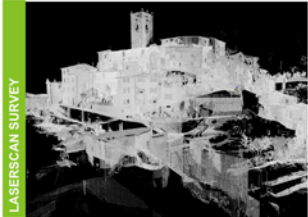


DIGITAL MODELING AND INTEGRATED MANAGEMENT FOR THE ARCHITECTONIC AND URBAN HERITAGE

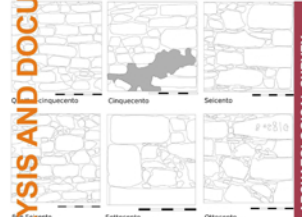
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This research is about the walled town of Sorana (near Pescia, Tuscany). It is among a range of experimentation and innovative research we are bringing on in these years, aimed to find and to define representation methodology and alternative communication/dissemination approaches to the gathered data.



The Sorana settlement survey was operated with multiple, integrated tools and technologies; the following human traces interpretation – from the landscape to the town and to the architecture – allowed to build the reconstruction of this area evolution, with a rich use of digital technologies based on the digital modelling, this gave the opportunity to access directly the historical process in townscape creation and environment transformation. Laserscan survey, topographical and traditional survey, archaeological and geological investigation, the masonry stratigraphy study, the landscape and the territorial analysis and the photographic campaigns, all of this, built together, placed in an integrated system, produced the digital model of this town, oriented to give back to the occasional user, to the technician and to the researcher an high quality access to information, were the model becomes the vehicle to communicate the main architectural and urban characteristics together with the rules which guided the development. And all is done with no compromises about the metrical accuracy. In this way, the digital three dimensional model becomes the main tool in cataloguing and organizing the elements of the town, a complete and working 3D GIS, making possible to access single and general elements as an evolved tool working side by side to traditional processes.

