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Survey and documentation for the valorization of the landscape and historical
center of Barbianello (PV).

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Abstract— The case of study take place in Italy, in the municipal territory of Barbianello (PV). It is part of a researching project promoted in collaboration with the DadaLab. - University of Pavia - Scientific Board Prof. Sandro Parrinello and Dott. Francesca Picchio. The primary aim of the survey researching project is about the conservation and the valorization of the architectural, cultural and historical heritage of the landscape; in particularly the identification of the various relationships between the built environment and the surrounding context. It define a researching method that can be applied to any urban system. The study of the structure of the area and of the natural and artificial system has allowed to obtain the necessary knowledge required for a full synthesis and interpretation of the territory, underline its Strengths and its Weaknesses. The study consisted of two phases: the first phase at the local level during which the entire municipal area was analyzed at a descriptive landscape level and consequently redrawn in order to have a complete synthesis of the current state of the area; in the second phase the analysis was limited to the case study of the historical center of Barbianello. The major urban fronts in the town centre were firstly detected and then each building was recorded in several data sheets in order to have a detailed catalog of the actual state of the site. The above mentioned research and the territorial study were not only a detailed analysis of an urban system but also could prove to be a useful tool when dealing with any form of future planning, management and conservation actions concerning the historical center of the town.

Keywords— Landscape, integrated survey, redraw, historic centre, Italy, Oltrepò, architectural survey, three-dimensional models, digital database.

I. INTRODUCTION

The Italian cultural Heritage is rich of rural landscapes, that are often abandoned to their decline due to poor land management by local governments. During the last years, the joint laboratory Landscape Survey and Design of the University of Florence and the University of Pavia has conducted various research activities on the issue of documentation of spatial complexes and their following representation in order to protect the formal aspect, to facilitate the activities of municipal plans, to transmit the landscape values for conservation purposes. The case of study on the

Oltrepò's territory and specifically on the municipality of Barbianello it tried to create a system of reading and cataloging of the landscape that was qualitatively and metrically reliable and exhaustive study of the specific case, able to spread to the neighboring small towns.

The landscape is the result of what is the spontaneous evolution of the natural environment and the continuous human intervention. In order to reach the understanding of the landscape its necessary analyze the territory relations that define its meaning, providing those of useful reading instruments and the basis for any planning that can involve an urban system. The understanding of the landscape implies the identification of the individual elements that compose it, but this is not enough in order design is in fact necessary to contextualize the individual and not Consider them not as isolated elements but as elements that are part of a set, and then what types of functionality these can assume within the landscape how and why are intercon-



nected among them.

Fig. 1 View of the rural landscape that we can find arriving in Barbianello historic centre.

II. MATERIAL AND METHODOS

The historic center of Barbianello is located in the Oltrepò Pavese area near the Scuropasso creek. The town has two small villages San Re and Bottarolo formerly autonomous municipalities that together with Barbianello are important historical areas settled charges of a singular architectural value identity Oltrepò. On the territory it was

carried out an analysis of both qualitative investigation of spaces and areas included within the entire municipality as well as a specifically survey of the historical center of the town and its historical monuments. For a general survey, which aims to return the spatial territorial character of the urban and the rural environment has been integrated with a specific laser scanner survey campaign aimed at documentation and preservation of cultural and local heritage. In particular the laser scanner survey activities were focused on Palazzo Nocca, palace dating from the eighteenth century and its manneristic park (1870). The relief operation have highlighted the state of neglect and abandonment in which is located the building that echoed throughout the territory, impacting on some buildings perception that have unquestionable historical value. The study of landscape at different territorial level requires the application of different methodologies. The first phase of the study involved the analysis of the entire municipality landscape. Approach to a landscape scale provides breakdown of the entire municipal system Barbianello into manageable and displayable areas in order to ease the critical reading, the redrawing, the understanding of spatial relation, spatial management, and in order to structure a valid graphic coding system for summarize the obtained results. A first level of decomposition has concerned the identification of homogeneous areas (macro) that were classified for their territorial character. Each macro-area has been identified by the detection of margins, centers, cores and blocks, in other words all portions of soil spatially identifiable by visual and physical limitations such as canals, trees, ditches and infrastructure and punctual symbols which affect the perception of space. It is also taking into consideration of administrative boundaries and the different punctual elements Landmark that stand in the horizontal continuity of the site, facilitating the observer's orientation that will acquire them as reference points. An example of Barbianello landmark is the bell tower of the Church of San Giorgio with its 32m height is visible from several points of the municipal area.

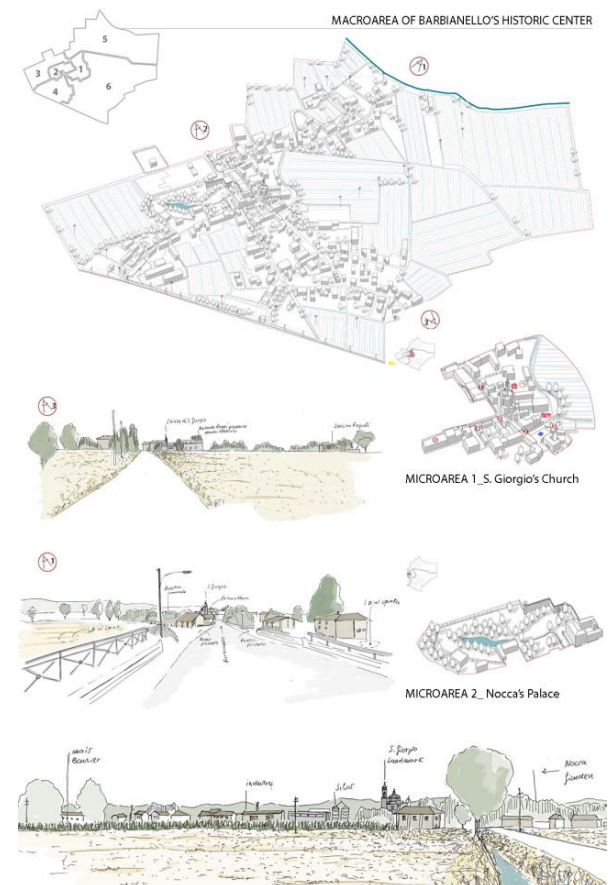


Fig. 2 From the photo can be seen that the bell tower of St. George is definable territorial landmark being visible from different parts of the municipality.

A second level of decomposition sees the identification of micro-areas within each macro-areas whose identification is defined by physical and perceptual limits less evident has allowed to extend the Landscape analysis,

dropping to a territorial level of to a deeper level, down to a greater amount of detail of the territory, for the investigation of the specific environmental elements and the mutual relations that characterize the physical space.

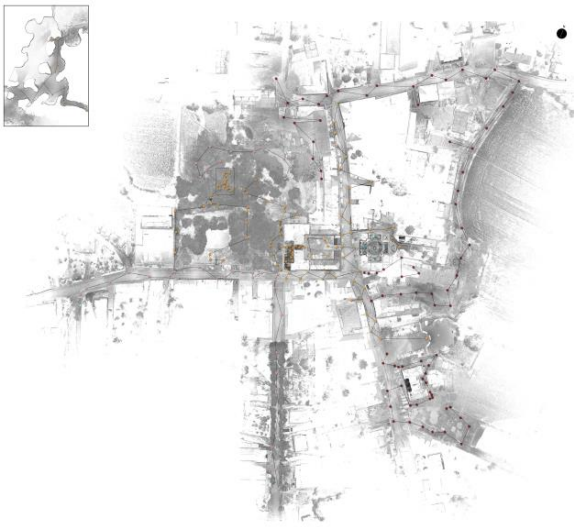
For each micro-area destinations of use and building types present, the agricultural areas and the relevant crop types have been detected. The analysis of the detail has helped to examine the color study of the built-up areas and open areas, highlighting the color of each urban front or valuable architectural complex, but also the changing of the agricultural landscape during different periods of the year. The interpretation of the environmental signs has produced a landscape synthesis process, inside of which the signs have been translated into codes, which turned out to be useful for a symbolic representation of the discretized complex system. Each element of the macro-area and micro-area system has been represented through an extreme simplification of its shapes, in order to clarify the identity features and easily make it recognizable within the



general representation of the territory.

Fig. 3 Example of the interpretation of the environmental signs has produced a landscape synthesis process, translated into codes for the representation of the Macro-Micro Areas.

During the second phase of the research the analysis has shifted from the territorial level to the specifics of the historical center. The methodology used for the analysis of the historical center has been an integrated laser scanner survey (model Z+F IMAGER 5006H). The survey work has been divided in two phases in order to guarantee complete collection of data. The first focus on the survey of the main urban fronts in order to census it, that meander along the two main arteries and one facing to the Nocca Palace and its and his precious garden where there is cave system hidden inside an artificial hill, covered by wild vegetation. The two systems have been treated independently and represent a trial of integrated survey



that help to go down to a level of detailed documentation.

Fig. 4 The output result of the survey campaign: planimetry of the Barbianello Historic Center.

The laser scanner survey was supplemented by photogrammetric data acquisition using the methodology Structure from Motion (SFM) turn to integrate data and to obtain a reliable product and metrically comparable to the result produced by the laser scanner. The main aim is to create a database inside which can find all kind of information from those metrics to those of the state of conservation of paraments materials documents that could be more complete. The purpose enhancement and historical preservation of the image of the municipality. For the recovery and enhancement of the urban image, a cataloguing of the major urban fronts has been provided and which is capable of developing thematic papers related to the state of maintenance of the urban fronts on which to plan following interventions of planning. The investigation on each urban front has been integrated by the completion

of descriptive drawings and a proper photographic campaign.

III. RESULTS AND DISCUSSION

The problem of land management has stimulated the design of an archive can be seen as organizational structure from which to set proposals for action more aware and to protect the identity of Barbianello characters. The coding system developed to catalog in macro and micro areas the entire territory allowed to start the process of digitization of information acquired and structure the storage system in place to provide mapping support on which reference the data processed on each element of the urban system. In particular, it led to the elaboration of a single graphic art face to synthesize the different levels of reading. The reading and the reconfiguration of the space complex in signs and symbols, and then through a critical design, is the first and fundamental task of land survey. The cognitive process produced a document can be easily placed between the state of affairs and that of the project, a sort of methodological protocol, a tool for proactive interventions aimed at more aware and protective actions of local traditional character of the area. The integrated laser scanner survey together with that SFM has instead allowed the graphical depiction of the major monuments in particular Nocca's Palace and garden complex. The product of this research is capable of interfacing with various figures of the sector and on different investigation levels which, according to the purposes required, can allow a discretization of the elements from the large stairs up to the maximum level of detail aimed at safeguarding of the well as the restoration decorative elements, diagnostics of systems or vestments and the description of the state of conservation of the architectural surface well.





Fig. 5 Some section that describes the Palazzo Nocca complex.

Fig. 6 Planimetry of Palazzo Nocca's garden.

IV. CONCLUSIONS

The construction of a comprehensive digital archive of information at different levels of investigation from those on a regional scale, aimed at the safeguarding of the surveyed goods with landscape value and spatial image and identity enhancement to those specifically analyzing the characteristics and metrics morphology of a particular element concerned with the appearance of recovery and restoration of the architectural good. Such heterogeneous analysis descriptive system is the tool useful and necessary for future operations times to the conservation and preservation of cultural memory and identity, which allows a development of the surveyed goods with landscape value through territorial and municipal development activities in addition to being the base for future specific surveys, it being possible to distance of time, to interface with the system updating information and extrapolating data necessary to a more specific intervention.

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project, which is responsible Prof. Sandro Parrinello and coordinated by Dott. Francesca Picchio, involved the cooperation of students and Ph.D in educational activities and educational seminars organized within the university courses of survey Architecture and Survey and Restoration of Prof. Parrinello, in the Bachelor's degree in Engineering / Architecture, University of Pavia.

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