

# LA CAVALLERIZZA DEL PALAZZO DUCALE DI MANTOVA: UN BILANCIO DEGLI INTERVENTI SULLE SUPERFICI

ANDREA ADAMI<sup>1</sup>, STEFANO DELLA TORRE<sup>1</sup>, LUIGI FREGONESE<sup>1</sup>,  
ANTONIO MAZZERI<sup>2</sup>, BARBARA SCALA<sup>1</sup>.

<sup>1</sup>Politecnico di Milano: andrea.adami@polimi.it; stefano.dellatorre@polimi.it  
luigi.fregonese@polimi.it, barbara.scala@polimi.it

<sup>2</sup> Palazzo Ducale di Mantova: antoniogiovanni.mazzeri@beniculturali.it

## ABSTRACT

The Museum Complex of Ducal Palace in Mantua was listed by the d.m. 23/12/2014 (Decreto Musei) among the state museums with autonomy, activating a process of reorganization of both museum functions and interventions management on the building. This scenario is the field of application for enhancement and protection activities that can find synthesis and mutual reinforcement within the new museum structure.

The financial availability from the FSC 2014-2020 ministerial program makes it possible to deal with issues of conservation and enhancement in a coherent methodological process, that can rethink the transformation of the building over time, aiming at a compatible and sustainable use of the complex.

Many interventions of the last thirty years on the Palace did not follow a homogeneous conservative intention, as we can see from the direct observations of works and reports. The works were often characterized by necessity and aimed to punctual solutions, facing low investments in knowledge and partial interventions, revealing now discrepancies and critical aspects to the detriment of the conservation itself.

The paper specifically concerns the ongoing restoration project of Cavallerizza courtyard and lakefronts, as part of the aforementioned FSC 2014-2020 program. The intervention defines "borderline" operational approaches, in which different disciplines are involved in a factual integration. The plurality of institutions involved (museum, soprintendenza, universities, research institutes) makes it possible to activate a relationship between research and interventions within an integrated methodological framework. Starting from the research results and reviewing previous interventions, the project reflects on consolidated operating practices, testing new potentials in which theoretical and technical choices combine in the short and long term.

Starting from the available materials and results from the surveys, the project has also relied on BIM systems, in anticipation of adoption of such electronic modeling tools in public works. The experience already gained within the Palace (Bressanone 2017), is proposed as a result to be optimized in the current project, approaching not only the topic of geometric modeling but also the management models to help controlling building maintenance during the time.

**Key-words:** HBIM, Conservation, Palce Ducale Mantova, Ashlar,