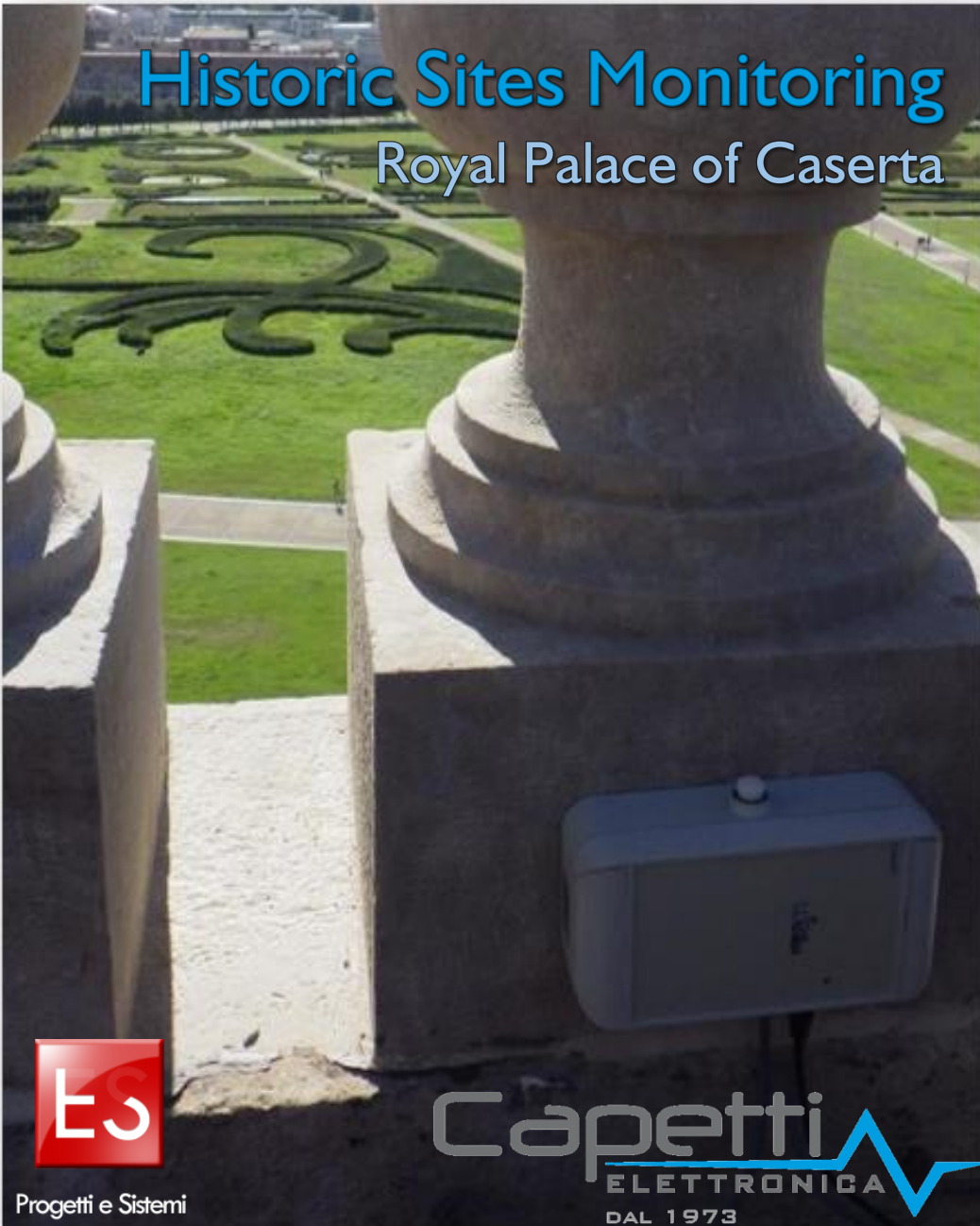


Historic Sites Monitoring

Royal Palace of Caserta



Progetti e Sistemi

Capetti
ELETTRONICA
DAL 1973

Background

The Royal Palace of Caserta has been a UNESCO heritage site since 1997, and is one of Italy's most visited historic sites. Atmospheric pollution and water infiltrations had caused the structure to deteriorate through time, especially the external and internal façades, and this had never been suitably resolved through maintenance operations aimed at achieving appreciable results.


The solution

Major restoration works involving 70,000 sq. m. were finally carried out between 2014 and 2017. During these works it was of primary importance to measure and record numerous physical quantities, such as temperature, wall inclination, the displacement of stone materials and the extent of cracks. Capetti Elettronica's wireless instrumentation, consisting of WineCap™ control units and dataloggers, was used to ensure maximum precision with minimum visual impact.

The result

The original two-tone colour was restored on the magnificent façade, split between grey travertine at ground level and the ochre of the bricks on the upper level, making it stand out once more to capture the admiration of tourists. Thanks to continuous structural and environmental monitoring, essential waterproofing work was also possible, which will ensure the longevity of this historic majestic site.



The winning choice 

- ✓ WSD10T (outdoor temperature)
- ✓ WSD12T-IIDR (biaxial inclination)
- ✓ WSD12-4D (displacement measure)
- ✓ WSD12T-DD (cracks extension)