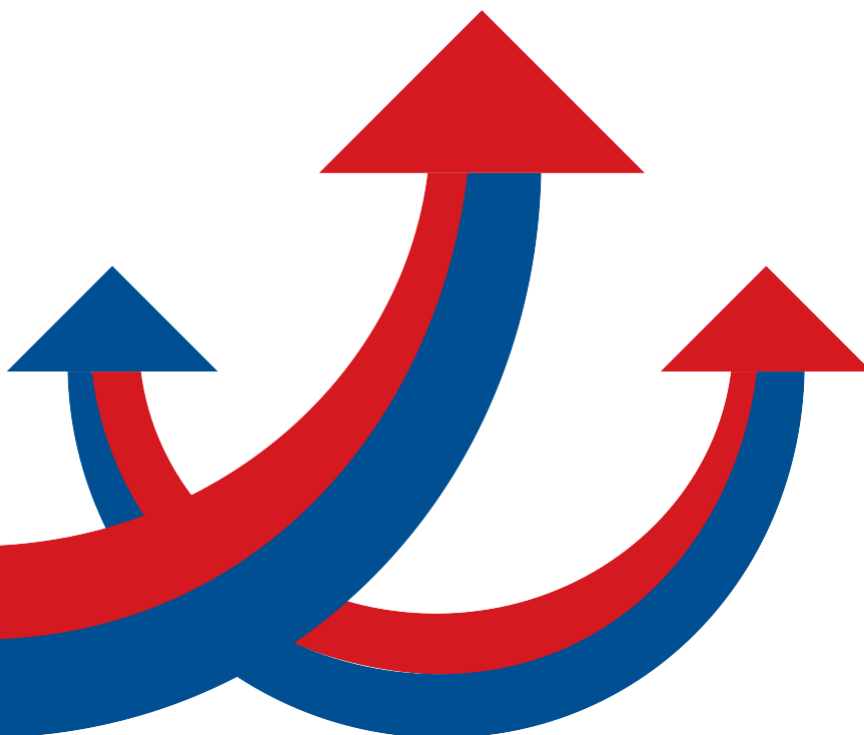


D4.1.1: Building renovation and supervision in Serres

Lead Beneficiary – Municipality of Serres



The Project is co-funded by the European Regional Development Fund and by national funds of the countries participating in the Interreg V-A "Greece-Bulgaria 2014-2020" Cooperation Programme.

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The restored building is a ground floor one, occupying a total area of 660 square meters. It is a near zero energy consumption building, well-insulated, using geothermal energy for heating and cooling.

The shell of the «K1» building, as well as the other buildings of the former «PAPALOUKA» military camp, has been designated as a “monument” by decision of the Ephorate of Modern Monuments of the Ministry of Culture.

The main use of the building was the military dormitories while it also served the use of administration offices, while its construction is placed around 1912.

In respect of the characterization of the shell of the building as a "monument", regarding the exterior and its coatings, as a request of the Ephorate of Modern Monuments, a sample of existing (old) coating material was taken from the said building K1, which was analyzed in terms of its composition and behavior by the Laboratory of Building Materials of AUTH, the results of which were used in the application of the new repair coating by the contractor.

Respectively, a sample of the material for replacement of wooden exterior frames was sent to the Ephorate of Modern Monuments of the Ministry of Culture, which approved it regarding its technical characteristics (type, thickness, color).

All the proposed final colors of the facades of the building, were related to the previous condition of the building, were also approved by the Ephorate of Modern Monuments, the Local Council of Architecture and were included in the Building Permit issued by the Urban Planning Department of Serres.

During the preparation of the building renovation study, it was found that it faces problems mainly due to the aging of the materials, under the influence of environmental factors.

The most important of these issues was the concrete slab of the roof which had been dismantled in parts and its steel reinforcement had been stripped, mainly due to the effect of moisture.

The individual architectural elements of the building show significant, but local dismantling and collapse of the exterior coatings, alterations of the decorative elements and significant damage to the elements of the frames.

The works that were carried out are described below in brief:



- Demolitions of exterior coatings



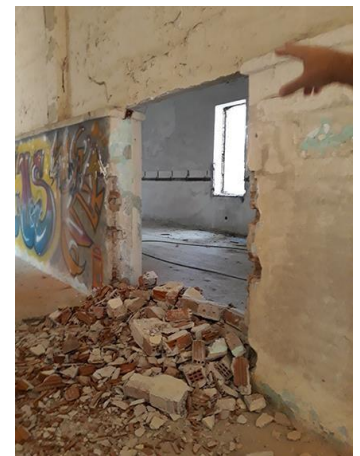
- Removal of destroyed areas of the roof



- Demolitions of internal coatings



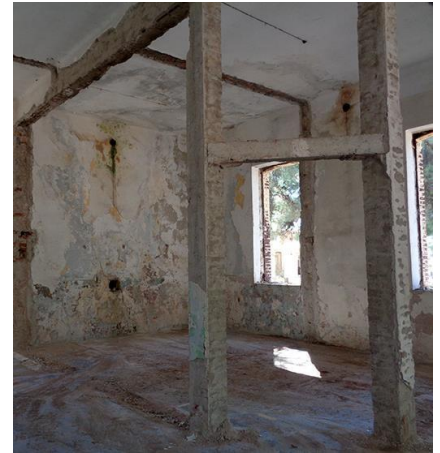
- Creation of new doors



- Internal spaces



- Removal of internal walls



- Cleaning the slab



- Coating of lightweight concrete



- Implementation of asphalt geotextile for waterproofing



- Demolitions of ceiling coating and cleaning



- Assessment of static adequacy



- Internal purge of walls with sandblasting



- External purge of walls with sandblasting





- Installation of ground heat exchangers



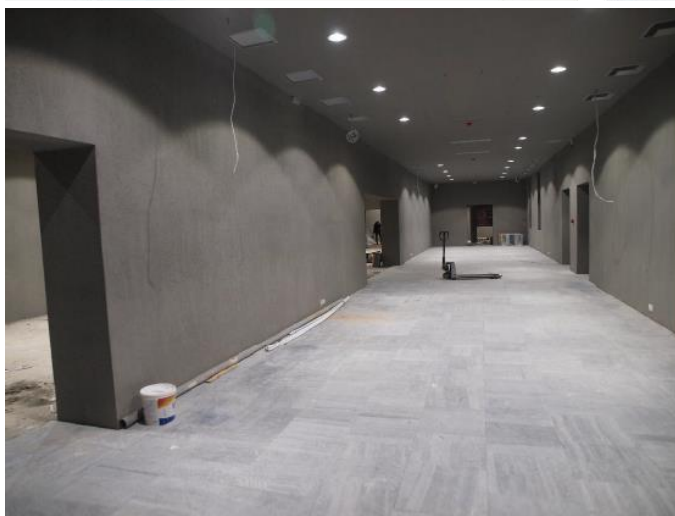


- Surroundings





- Supply and installation of the equipment



- Completion of works







An emblematic full Museological-Museographic-Graphic design study was prepared, as part of the project, by the emeritus professors of AUTH, Matoula Skaltsa, Panos Tzonos and their team. The aforementioned worked closely with the artist and whatever was designed has his approval. The Contemporary Art Museum Constantin Xenakis is not a typical Museum-Warehouse, but a complete Thematic Museum, where one may tour the evolution of Xenakis' work, throughout his artistic career, by the use and utilization of contemporary technological means. As a result of the previous collaboration with the museologists, the artist almost doubled his initial donation, which now numbers 171 works and in addition, 13 works have been donated by prof. A. Naniopoulos. Copies of some other works, which the Museologists consider important for the visualization of the evolution of the artist's work, are also exhibited.



The Museum of Contemporary Art “Constantin Xenakis” in the “Konstantinos Karamanlis” Culture Park showcases Serres as an important cultural center with radiance that goes far beyond the Greek borders.

