

DESIGN AND TECHNOLOGY. PEOPLE, SYSTEMS, ENVIRONMENT

MUR DM 118 - SIMM_System of Information on Modern Materials: a tool for conservation and enhancement of 20th Century architectural heritage

Funded By	Ministero dell'Università e della Ricerca - MUR [P.iva/CF:96446770586] Dipartimento di Architettura e Design [P.iva/CF:00518460019]
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Context of the research activity	<p>MUR DM 118 - SIMM_System of Information on Modern Materials: a tool for conservation and enhancement of 20th Century architectural heritage and interior design</p> <p>The research aims to set up an information system SIMM - Sistema Informativo Materiali Moderni (Modern Materials Information System), to support the decision-making and authorization process of the Soprintendenze and architectural heritage protection Bodies concerning 20th-century heritage and which can also be a support for scholars and professionals. The SIMM will be an implementable tool, open to all, that will collect in an organized way and affordable to several users and according to different research accesses, information (that can also be integrated with BIM models) necessary to consciously face the design, verification, and exercise of the protection of the interventions presented to the PA.</p> <p>Progetto finanziato nell'ambito del PNRR - DM 118/2023 - CUP E14D23001600006</p>
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	<p>The research aims to set up an information system on the architectural heritage of the 20th-century to support professionals, scholars, and conservation bodies. The SIMM will be an implementable tool, open to all, that will collect, in an organized way and usable by several users and according to different research accesses, information (that can also be returned through BIM models) necessary to consciously face the design, verification, and exercise of the protection of the interventions presented to the PA. It will</p>
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Objectives

provide specific information on materials and technologies, uses, manufacturers, construction companies, and the results of restoration or replacement work carried out, filling a gap in knowledge on 20th-century architecture. Collaborations will be initiated with the Soprintendenze and DOCOMOMO (International Committee for Documentation and Conservation of Buildings, Sites, and Neighbourhoods of the Modern Movement) Italy and International who have already expressed interest in such a tool, intended as complementary to the catalogues and study tools already adopted.

PAs and heritage Protection Bodies face the issue of rehabilitation, recovery, and maintenance of buildings constructed in the first and second half of the 20th century, a period when technological innovation deeply changed the way of building. The public building heritage under protection is numerous and of high quality and needs careful rehabilitation. It is a building heritage largely built with 'new', experimental materials and technologies and in the absence or lack of specific regulations. The public buildings of the 1930s (GIL, Case del Fascio, Post offices, ...) need appropriate reuse, just as the social housing complexes of post-war reconstruction often represent design and construction experiments such as the use of prefabricated systems. In order to work on this heritage it is necessary to be familiar with the 'new materials' and 'new technologies' often the result of research and innovation, born to meet the needs of the autarchic regime imposed on Italy. The PA and the protection bodies in particular have started a basic census of this heritage.

borsa di dottorato a valere sul DM 118/2023 + Dipartimento

Skills and competencies for the development of the activity

Basic knowledge of 20th-century architecture, architectural technology, and modern materials