



OBSOLESCENCE and RENOVATION

20th Century Housing in the New Millennium

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Abstract / Initial Proposal Form:

1. Paper / Proposal Title: Modern multifamily housing buildings in Oporto (1940-1960): renovation strategies

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6. Abstract (300 words): This contribution proposes a comparative analysis of original and transformed domestic layout in recent interventions on modern multifamily housing in Oporto built between 1940 and 1960.

The study begins with the analysis of examples of multifamily housing that are main references of the Modern architectural Movement in Oporto. This architectural ensemble represents a period of significant conceptual changes in architectural housing production that introduce modern and innovative questions from spatial/formal, technical/structural and social/ideological points of view. The main objective is to identify the characteristic elements that justify the patrimonial relevance of this heritage ensemble with undeniable architectural quality.

The lack of recognition for this recent heritage has accelerated its natural degradation and increased the number interventions of questionable quality. On the one hand, the technical and structural weaknesses of the architecture of this period can be the cause of accelerated degradation. These weaknesses are, in part, a consequence of successive experiments of new materials. On the other hand, the absence of disciplinary criteria in contemporary interventions suggests the fragility of the legal and logistic framework for the protection of this architectural legacy.

This study will analyze recent interventions, focusing on spatial transformations such as modifications of room function and connections between spaces. The aim is to identify solutions that take advantage of original typological features and technical capabilities while simultaneously adapting the buildings to new comfort demands.

Apart from a reflection on the strategies for renovation, reuse and effective adaptation of these buildings to contemporary living requirements, this study aims to establish a relation between the spatial, technical and social transformations and the preservation of the originality and authenticity of these buildings. Furthermore, this research could increase awareness to the damaging interventions on this ensemble and to the urgent need of patrimonial protection of Modern heritage.

7. Author(s) Biography (200 words maximum for all authors):

Ana Tostões PhD is architect, architectural critic and historian, Chair of DOCOMOMO International and DOCOMOMO Journal Editor (www.docomomo.com). She is Full Professor at Técnico, Lisbon University, where she is in charge of the architectural PhD program. She has been invited professor at FAUP, EPFL, ETHZ, UTSOA, RSA, ETSAB, ETSAUN.

She has a degree in Architecture (ESBAL, 1982), a master's degree in History of Contemporary Art (UNL, 1994; *Os Verdes Anos na Arquitectura Portuguesa dos Anos 50*, FAUP Edições, 1997) and a PhD (IST-UL, 2003) on culture and technology in Modern Architecture (*Idade Maior*, FAUP Edições, 2015).

Her research field is the theory and history of architecture and construction of the twentieth century, focusing on the worldwide cultural transfers. On these topics she has published 13 books and 95 scientific articles, curated 9 exhibitions, taken part in 47 juries, 40 scientific committees and given 72 lectures in European, American, Asian and African universities. She has been acting as peer referee of Scientific Journals.

Tostões has been vice-president of the Portuguese Order of Architects and the Portuguese section of the International Association of Art Critics. In 2006, she was awarded the title of Commander of the Order of Infante Dom Henrique.

Luciana Rocha (Santa Maria da Feira, 1983). Architect, graduated from Faculty of Architecture of University of Porto (2007), researcher at "Atlas da Casa"(CEAU-FCT). Worked at Eduardo Souto de Moura architecture office between 2008 and 2010.

Conducted research at TSAM Laboratory (EPFL, Lausanne) under the supervision of Professor Franz Graf.

She is currently developing her PhD thesis at FAUP, concerning intervention methodologies for the preservation of Modern Multifamily Housing in Oporto (1930-1960). The research is being conducted under the supervision of Professor Ana Tostões and Professor Luís Soares Carneiro.