

Determinant Elements for Useful Life in Airports

Authors : Marcelo Müller Beuren, José Luis Duarte Ribeiro

Abstract : Studies point that Brazilian large airports are not managing their assets efficiently. Therefore, organizations seek improvements to raise their asset's productivity. Hence, identification of assets useful life in airports becomes an important subject, since its accuracy leads to better maintenance plans and technological substitution, contribution to airport services management. However, current useful life prediction models do not converge in terms of determinant elements used, as they are particular to the studied situation. For that reason, the main objective of this paper is to identify the determinant elements for a useful life of major assets in airports. With that purpose, a case study was held in the key airport of the south of Brazil through historical data analysis and specialist interview. This paper concluded that most of the assets useful life are determined by technical elements, maintenance cost, and operational costs, while few presented influence of technological obsolescence. As a highlight, it was possible to identify the determinant elements to be considered by a model which objective is to identify the useful life of airport's major assets.

Keywords : airports, asset management, asset useful life

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