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Nowadays, the representation of 3D objects takes more and more importance in the treatment of geographic information. In particular, the Geographic Information Systems (GIS) can integrate three-dimensional data in the field of the development, planning, simulation of future projects and integration into the landscape, etc. Consequently, the 3D data has become an interactive data of great importance. In the Moroccan cadastre, information is represented using only 2D topographical maps, these maps do not allow a faithful presentation of reality, especially in the case of buildings with complex geometry belonging to several owners. The objective of this paper is to present the state of the art of Moroccan cadastre and propose a reflection on a 3D cadastre based on experiences over the world, while maintaining the positive aspects of 2D cadastre. In the Moroccan context, any building or group of buildings, whose ownership is split between several owners in batches, each comprising a unit and share common elements, constitutes what is called co-ownership (coproperty). A co-ownership is managed using the 2D topographic map, but this representation does not allow a comprehensive view of the entire property. In addition, the co-ownership cannot represent 3D rights, restrictions and responsibilities related to the ownership because the vertical information exists only in vertical sections, making it difficult to understand the 3D position. For this reason, it is encouraged to think about a 3D cadastre which should represent both the reality and the legal value. A 3D cadastre is becoming increasingly important especially in cities with significant urban expansion which contain growing rise buildings. So what are the main points of the transition to a 3D cadaster in Morocco? Based on international experiences, in the case of Morocco it is proposed to adopt a hybrid cadastre, which provides evidence of the property and rights acquired on the latter.

Keywords Cadastre 2D 3D ownership coproperty