

Possible Socio-Economic Reflections of 3D Cadastre Studies

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SUMMARY

It is one of the most important requirements of our day for citizens to see their rights and obligations regarding their own real estate, to use their right of savings correctly, to prevent illegal or wrong purchases/sales, to display the buildings and independent sections subject to condominium in 3D, to determine and monitor the building and housing stock. In fact, this requirement can also be expressed as “deed records should reflect the actual situation in the land”. In this context, both the photogrammetric production and coating of 3D City Models in an urban area of approximately 50 thousand km² and the digitization of architectural projects have become one of the priorities of General Directorate of Land Registry and Cadastre (GDLRC). In 2018, oblique aerial camera and peripheral components were procured, and technical requirements were determined by making pilot production in an area of 50 km². Subsequently, "3D City Models Production and 3D Cadastre Base Creation Project", briefly "3D Cadastre Studies", was initiated by GDLRC in 2019.

In this paper; Considering the experiences in the production processes that started in 2019, the demands of public institutions and organizations and private sector entrepreneurs for the products obtained / to be obtained during the production stages, the 3D data needs of technological applications such as 5G, IoT, VR/AR/XR, PROPTech, FINTECH, Blockchain. The possible social and economic reflections of the 3D Cadastre studies carried out by GDLRC have been examined.