3d City Models Management Information System Design: the Case of Turkey

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SUMMARY

General Directorate of Land Registry and Cadastre of Turkey (TKGM) has completed the measurement of approximately 58.5 million parcels and completed the traditional cadastre of the whole of Turkey. With the completion of cadastral studies, studies have been carried out for a better land administration in the last ten years. In this context, various studies are carried out for the 3D digital management of the geometry of the buildings and independent sections, their integration with the Land Registry, Cadastre and Address data, and as a result, "The Production of 3D City Models and Creation of 3D Building Models for Cadastre Activities" was started in 2020.

With Production of 3D City Models and Creation of 3D Building Models for Cadastre Activities Project, the three-dimensional data produced or to be produced by General Directorate of Land Registry and Cadastre; A platform was needed that includes production tracking, verification, hosting, integration, presentation, sharing and continuity model. An open source application named "3D City Models Management Information System" was designed by General Directorate of Land Registry and Cadastre as needed. In this paper, information about the setup, management and presentation of 3D City Models Management Information System will be shared.

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