

The Way to Improve Cadastral Resurvey Project with Making Google Street View Using 360 Camera

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Key words: Cadastre; Cadastral resurvey; Camera; Mobility; Maps; Streetview; 360 VR

SUMMARY

In Korea, cadastral resurvey project is underway. The cadastral resurvey project area is where the boundaries on the cadastral maps do not match the boundaries in reality. Therefore, landowners in this area experience many restrictions in exercising their property rights. In order to solve this problem, surveyors try to adjust the boundaries of the maps based on the real boundaries through the resurveying project.

However, since the scale of the project varies from region to region, it takes a lot of time to check and adjust each land. Normally majority of Korean surveyors tend to visit the site when they need to adjust the boundaries, because it's too different about the project quality without seeing (visiting the lands) or with seeing. Also, boundary adjustment is crucial, so it should be confirmed by visiting the site with the mutual understanding between landowners.

Korean surveyors usually use orthophotos taken by drones to check how the land is used. But it has limitations for verification because orthophotos are only taken vertically. Therefore, it is needed a tool that provides surveyors a horizontal view of the project site.

So this project suggests how to use Google Street View to save time to visit and explore the project area. Therefore, the project aims to improve the efficiency of boundary adjustment by making it as if a surveyor is in the project area, and to ensure the credibility of the project through smooth communication with landowners.