Augmented Reality Technology: Opportunities & Challenges in Spatial Planning

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SUMMARY

Advances in information technology have brought a new era in which the virtual world (internet technology and position) is brought into the real world. This new era has merged the virtual world to the real world. The technology referred to is Augmented Reality (AR).

The implementation of AR in the spatial planning field is expected to be able to facilitate the assessment activities to provide data for decision making. Land data managed by Kementerian ATR/BPN (Ministry of Agrarian and Spatial Planning/National Land Agency) can be better utilized. In addition to providing on-the-go information related to land parcels, the technology offered by AR can also simultaneously support data validation and/or correction.

Kementerian ATR/BPN has developed a mobile application called the SmartPTSL. This application works as a device for land data collection.

Based on the above description, it is necessary to study the state-of-the-art AR technology. Furthermore, it is also necessary to examine the urgency of embedding AR functions in SmartPTSL. What information can be provided and who is interested will be interesting to elaborate in this paper.

Prototype can provide preliminary information on land parcel(s) as initial guidelines to surveyor. Information include are identity of the owner and their land parcel. A brief assessment related to user satisfaction has meet the purposes of surveyor, deed officer and the wider community.