

Enhancement of Parcel Based Spatial Information Via Quick Response (QR) Code

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SUMMARY

Locating land parcel physically on the ground based on Certified Plan (CP) or land title is time consuming and costly. With the advent of Information and Communications Technology (ICT), an innovation towards locating land parcel automatically on the Google Earth with the aid of Quick Response (QR) code is introduced. In this study, selected information from the CP and land title is encoded towards the preparation of a QR code. The QR code is then placed on the respective CP and land title. With the aid of Smartphone the QR code can be decoded and the location of the land parcel can be displayed on the Google Earth/Maps. This innovation will be of great advantage to a diversity of land related activities. The accuracy of locating the land parcel on the Google Earth/maps is assessed using known points and it is found that the positioning accuracy is less than ± 10 meters. With this accuracy, navigating to the land parcel physically on the ground could be done with ease. In this study, various types of available barcodes are being discussed as well as the proposed type of encoder and decoder to be used. An outlined towards the creation and decoding of the QR code will be presented and the prototype results will be portrayed.