

RFID–Based Cadastral Boundary Mark System (RCBMS)

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SUMMARY

The cadastral system in Malaysia needs to utilize appropriate technology such as innovation in Information & Communication Technology (ICT) to efficiently support modern cadastral system and infrastructure. Ubiquitous positioning by integrating multi-sensor and mobile database management system is an ICT innovation, which can provide benefits to the cadastral surveying community, such as aiding users in finding and/or updating information on cadastral boundary mark on site. In this paper, a RFID-based cadastral boundary mark system (RCMBS) is discussed. The main aim of the RCBMS is to modernize the conventional cadastral boundary marks with lighter, robust, easy to locate and capable to perform spatial/non-spatial cadastral information on site. The RCMBS contains few subsystems and each component of the subsystem needs to be developed in order to execute the system. A prototype platform of the RCBMS has been produced to gather more information, demonstrate the functionality to help solidify requirements and technically understand the problems of the system. It is expected that the RCBMS will provide a valuable support for cadastral practice in the country.