

Combining Geomatics Technology for Successful Land Development Projects and Pilots

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Key words: Cadastre; Capacity building; Cartography; Digital cadastre; Engineering survey; GNSS/GPS; Land management; Low cost technology; Photogrammetry; Positioning; Quantity surveying; Valuation

SUMMARY

Title: Combining geomatics technology for successful land development projects and pilots

With the amount of new technology, methodologies, and connectivity available in our profession, it can be a challenging task to select one suite of geomatics technology to support land development projects.

The majority of projects today require several geomatics technologies to work independently on specific tasks, but ultimately must behave together as a cohesive solution through sharing data, communications, interoperability and final deliverable. Does selecting a real-time continuously operating network as your foundation for a land project limit using traditional GIS methods for capturing attribute data? What if radio based RTK surveying works best for urban parcel boundary delineation but using satellite delivered corrections will save time in rural areas? Combining technologies can be incredibly valuable and efficient, but cumbersome if not coordinated properly on the correct platforms.

Land development projects also involve numerous departments and organizations that have different responsibilities and skills to contribute, resulting in a wide range of ability and interest in technology. The surveying and mapping department will have different requirements and interests compared to statistics and census, and the technology selected for one department may be too complicated or require extensive training for other departments to use. Assessing the technology capability of stakeholders, contributors and benefactors to land development projects prior to implementation can affect overall timeline and success. Flexibility and ease of use is key for usability of the final project

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deliverable.

This presentation examines the key factors towards successful implementations of multiple geomatics technologies in land development projects, including: common data structures and formats, utilizing the Fit for Purpose approach, equipment flexibility, and diverse staff and agency requirements.

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