

2012

June

Improvement in Quality and Availability of Remote Sensing Data for Oil Palm Plantation Mapping

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Remote sensing data has proven itself to be highly effective owing to its advantages in gathering data such as reliability, near real time, comprehensiveness, breadth of view and cost effectiveness. The availability and exceptional quality of high-resolution satellite imagery and terrain data have become important components in identifying and resolving a host of technical issues facing key decision-makers. This study summarises more than ten years of hands on experience of PT. Earthline, and describes high-resolution satellite imagery and terrain data in terms of availability and quality.

The increased availability and ease of acquisition of effective archive data is noteworthy and most encouraging. The increase in alternative sources of satellite imagery shortens the production process from order to completion.

Enhanced satellite imagery and image processing continues to increase in quality and usefulness to the customer. Our subsequent image enhancement produces high quality and accurate imagery and associated data that allows better decision-making by oil palm plantation management.

Keywords: Remote sensing data, oil palm plantation management, mapping, Digital Terrain Model (DTM), quality and quantity data, and further image processing.