

**ANALYSIS ON CENSUS AND YIELD DATA COLLECTION IN OIL
PALM PLANTATION, CASE STUDY: PT XYZ**

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STATEMENT BY THE AUTHOR

I hereby declare that this submission is my own work and to the best of my knowledge, it contains no material previously published or written by another person, nor material which to a substantial extent has been accepted for the award of any other degree or diploma at any educational institution, except where due acknowledgement is made in the thesis.



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ABSTRACT

ANALYSIS ON CENSUS AND YIELD DATA COLLECTION IN OIL PALM PLANTATION AT PT XYZ

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Current data collection for yield and census in oil palm plantation produces only plantation data and block data. Lower level data, tree level data is not available. Tree level data needed for particularistic purpose, such as deep observation on a low yield block for production intensification purpose and higher accuracy in production projection. This research aim to produce digital spatial data to enable efficient productivity analysis by collecting each tree yield data and a full population production census using Ranko Tracker method of data collection. Sets of color coding map successfully produced with this method, accurately locating specific area requires immediate action plan within efficient and effective manner.

Keywords: *oil palm, intensification, spatial data, color coding map, yield productivity, census, mobile application, decision support system*



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DEDICATION

I dedicate this work to my parent Hj. Rukmini, SH and H. Suparno, SH, MH, my other half Kartika Hardyani, S. Sos, my guardian prince Raffa Danadyaksa Parnando and my beautiful angel Khaira Hisania Parnando.



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