

# **Integrated Cadastre Mapping Training through Blended Learning Method as part of Corporate University Initiative: Challenge and Opportunity in Ministry of Agrarian Affairs and Spatial Planning/National Land Agency Indonesia**

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## **SUMMARY**

Indonesia has around 126 million land parcels and its national land registration has been carried out since 1960. The Ministry of Agrarian Affairs and Spatial Planning (ATR/BPN) has succeeded in registering 81.5 out of 126 million land parcels (64%) by 2022. The number will increase every year with the existence of massive systematic land registration (PTSL) and it is expected that all parcels to have been registered by 2025. However, one of PTSL's obstacles is the spatial land data quality obtained from PTSL projects. Furthermore, It is identified that there are low level of survey and mapping competency of civil servants. ATR/BPN Corporate University (CorpU) was chosen as an organizational learning strategy in accordance with existing governance so that a learning organization is realized. The Directorate General of Surveys and Mapping (SPPR) in collaboration with the Center for Human Resource Development (PPSDM) has conducted integrated cadastral mapping (basic and advanced levels) using blended learning method. The objective of the basic level training is to deepen cadastral mapping skills while the advanced training focuses on the integration of measurement and mapping of land parcels with precise accuracy through photogrammetric and terrestrial methods using land office computerization (GeoKKP). The blended learning method is supported by survey and cadastral mapping learning media and modules that are integrated with the Learning Management System (LMS), assignments, and competency tests using the Computer Based Test (CBT). 2415 out of 3105 (65%) the basic level mapping training participants passed but 690 participants (35%) failed. For advanced level training, 36 out of 40 participants (90%) passed and 4 people (10%) failed. The evaluation show that participants consisting of civil servants who work in surveys and cadastral mapping are less motivated in learning because the participants are still given routine workloads in their respective offices (the majority work in district/municipality land offices and provincial regional land offices). Moreover, learning infrastructure support (LMS server) is less stable thus disrupting the learning process. Despite several obstacles, the application of the blended learning method in support of ATR/BPN

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CorpU can be used to improve human resource capacity, focusing on knowledge and skills of surveys and cadastral measurements at ATR /BPN.

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