



## **SPATIAL MONITORING AND REPORTING TOOL (SMART) SYSTEM FOR MONITORING EFFICIENTLY AND STRENGTHENING ENFORCEMENT OF FOREST**

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### **ABSTRACT**

The Spatial Monitoring and Reporting Tool (SMART) System is an innovative management tool designed by the SMART Partnership based on GIS systems to assist forest managers in monitoring activities more efficiently and strengthening enforcement. It facilitates data collection, analysis, reporting, and provides information from SMART monitoring to support forest managers in planning and decision-making. Consequently, the Perak State Forestry Department (PSFD) has been selected to conduct a pilot project of the SMART System for forest monitoring activities, especially in production areas in Peninsular Malaysia. Starting in 2021, various training and reinforcement activities, as well as several enforcement operations, have been carried out to enhance the knowledge and usage capacity of the SMART system among field officers. Therefore, the Forestry Department of Peninsular Malaysia (FDPM) has taken the initiative to develop a SMART Patrol enforcement data model that includes monitoring production activities, periodic monitoring of all classifications of Permanent Reserved Forests (PRF), and transit inspections. This provided data model is still in the trial period and is expected to be fully utilized in the future.

**Keywords:** SMART Patrol, monitoring system, enforcement