

## **ABSTRACT**

This study aims to improve the reliability of communication networks in Sulawesi, focusing on availability and Mean Time to Repair (MTTR). The Fiber Dokter monitoring tool was used to track the network in real-time. The results were compared with traditional monitoring methods used before.

Data was collected from various points in Sulawesi to measure the number of issues, their duration, and repair times. Using Fiber Dokter showed a 0.1% improvement in availability. Additionally, repair times, or MTTR, were reduced by up to 20%.

In conclusion, Fiber Dokter significantly improved network efficiency and reliability. This technology can support economic and technological growth in Sulawesi. Implementing this tool is crucial to meet the demand for uninterrupted services.

Keywords: fiber optic, aerial cable, Sulawesi, MTTR, availability