**"Breaking Down Silos: Enhancing Mining Operations through Agile Collaboration and Data-Driven Decision Making"**

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# ABSTRACT

PT. Pamapersada Nusantara (PAMA) embarked on a digital transformation journey to optimize productivity and decision-making at its BRCB mining district. By adopting Scrum, PAMA successfully broke down traditional organizational silos and fostered a data-driven culture.

The implementation of Scrum resulted in significant improvements in key machinery productivity. The Excavator PC20008 achieved a 17% increase in output, from 597 Bcm/Hrs to 697 Bcm/Hrs. Similarly, the Excavator EX2600 experienced an 8% increase, and the Heavy Dumptruck saw a 9.5% improvement in efficiency. These gains were attributed to the iterative nature of Scrum, which enabled rapid experimentation and continuous improvement.

A real-time performance dashboard, developed as part of the Scrum initiative, provided valuable insights into operational performance. By visualizing data from multiple sources, the dashboard empowered decision-makers to make data-driven decisions and identify areas for optimization.

The success of the Scrum implementation at BRCB prompted a broader rollout across other PAMA districts, including KIDECO, BRCG, and KPCB. This expanded adoption of Scrum fostered a company-wide culture of innovation and agility.

This case study demonstrates the transformative power of Scrum in the mining industry. By aligning data analytics with operational goals and empowering teams to work collaboratively, PAMA achieved significant productivity gains and enhanced decision-making capabilities. Scrum has proven to be a valuable framework for organizations seeking to improve operational efficiency and drive sustainable growth.